

LEHIGH *alumni* BULLETIN



APRIL 1943



BELLY FULL OF BULLETS — but every man alive!

Tex. ... Barker of Bellevue, reported not one man of the 10 aboard the bomber received as much as a scratch. One of the bomber's engines was shot up, however, and there were bullet holes in the fuselage. It was this bomber's first encounter with Jap Zeros. The plane crew included ...

(clipped from a recent issue of the Cleveland Plain Dealer)

News items like this appearing almost every day—tell of the miraculous ability of American bombers to reach their objectives through a deadly hail of enemy fire—and return with every man alive.

American planes are proving their fighting ability in the skies over most of the globe. They can take it as well as dish it out.

Scores of American flyers in all parts of the world owe their lives to armor plate at vital points in planes—armor plate tough enough to stop enemy bullets and light enough to fly.

The quality of these planes is a tribute to the American system of industry. The volume of their production is amazing—up from 20,000 in 1941 to 49,000 in 1942—more planes than we produced in the 23 years preceding this war.

This production job would not have been possible without vastly increased

tonnages of the fine steels necessary for engines, fuselages, propellers, landing gear, armor and armament.

Free American industry has done a far greater war production job in two years than Hitler's "efficient" dictatorship could do in ten years!

In these same two years, Republic's electric furnace capacity for making "Aircraft Quality" steels, light armor plate, and other alloy steels, increased more than 700%. Output of steel plates for ships was boosted 500%. A huge stream of peacetime products was diverted into a record-breaking flood of war steels and war goods.

We Americans perform these miracles not because we are supermen, but because we are *free* men. We have advantages and opportunities enjoyed by no other people in the world.

And we are fighting and working and producing for our American right to live our own lives in our own way, and for our equal chance with every other American, to rise as high as we care to climb.

REPUBLIC STEEL

General Offices: Cleveland, Ohio

Export Department:

Chrysler Building, New York, N. Y.

But while we fight abroad to protect the American way of life, *we must guard it doubly well at home*. We owe it to our sons and brothers in uniform that they shall return to an America that is worth the sacrifices they are making—an America that will grow even greater and stronger because it is *free*. We must not and *will not* fail them.

ALLOY and CARBON STEELS • STAINLESS STEEL • PLATES
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FARM FENCE • WIRE • FABRICATED STEEL PRODUCTS

The Lehigh Alumni Bulletin April

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On the Cover this Month

One of the busiest men in Lehigh's athletic department, Richard L. Brown, varsity swimming coach, now devotes most of his time to teaching Lehigh undergraduates a water safety program which will enable them to remain afloat under any conditions. Pictured on the cover this month, Brown is shown as he lectures to a class of swimmers before they enter the water for a practical demonstration of life saving methods.



Leonard H. Schick

Robert F. Herrick

OFFICERS: *President*, James H. Pierce, '10; *Vice-Presidents*, Mercer B. Tate, '20, and Donald R. Lowry, '11; *Treasurer*, R. S. Taylor, '95.

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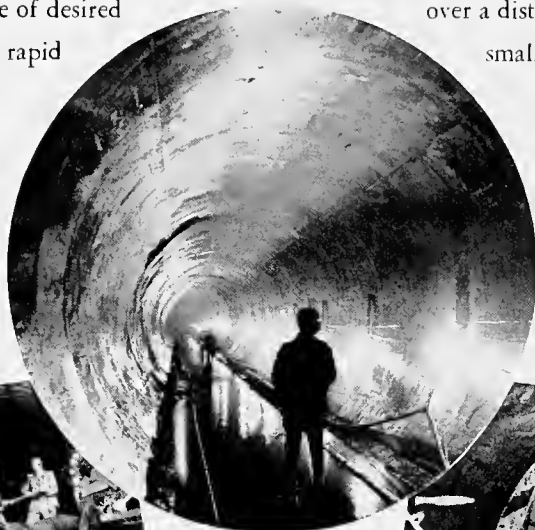
APRIL, 1943

Concrete Lining for New York City's 85 Mile Water Conduit

DRAVO contract for ten miles of tunnel on the Delaware Aqueduct is well into the concreting stage. Driving long since has come to an end and the entire job has passed through a complete transition — from the setup to extricate rock from the earth to make a hole of desired outline, in efficient, safe and rapid

manner, to the task of inducing back into the hole, a smooth continuous barrel of concrete. The volume involved is 300,000 yards, requiring 600,000 barrels of cement, 135,000 yards of sand and 225,000 yards of crushed rock to be distributed over a distance of ten miles through two small openings, Shafts 7 and 8.

(Below) Completed invert. The anchor bolts have been used to locate sockets later used to anchor the arch form. They are being removed.



(Below) Arch form set and lined, ready for concrete with form carriage withdrawn.



Lehigh Alumni with Dravo Corporation and Subsidiary Companies

S. P. FELIX, '03
J. D. BERG, '05
E. T. GOTT, '06
A. S. OSBOURNE, '09
L. C. ZOLLINGER, '09
V. B. EDWARDS, '12
GEO. F. WOLFE, '14
W. P. BERG, '17
E. H. ZOLLINGER, '18
F. J. LLOYD, JR., '23
B. E. RHOADS, '23
W. W. ARMSTRONG, '27
R. W. MARVIN, '27
PAUL G. STROHL, '27

G. W. FEARNside, JR., '28
C. W. GRANACHER, '29
E. V. TWIGGAR, '31
*J. K. BEIDLER, '34
W. A. ROBINSON, '34
H. E. LORE, '35
L. P. STRUBLE, JR., '35
D. R. BERG, '38
W. B. WOODRICH, '38
K. C. COX, '39
C. C. BALDWIN, '40
*A. T. COX, '40
F. E. HARPER, JR., '40
*R. R. MERWIN, '40

R. E. STEPHAN, '40
ROBERT A. HECHTMAN, '41
WILLIAM H. LEHR, '41
RICHARDSON GRAY, '41
LLOYD F. GREEN, '41
GEORGE W. WOELFEL, '41
RICHARD M. DIETZ, '41
JOSEPH KASZYCKI, '41
ROY E. WOODLING, '41
DR. J. SMITH MILLER, HON. '41
GEORGE W. HANSON, '42
LOWELL K. OLIPHANT, '42
CHARLES E. PATTEN, '42
ROGER E. KOLM, '42
CHARLES P. DAVIDSON, '42

* In military service

DRAVO CORPORATION

DRAVO BUILDING

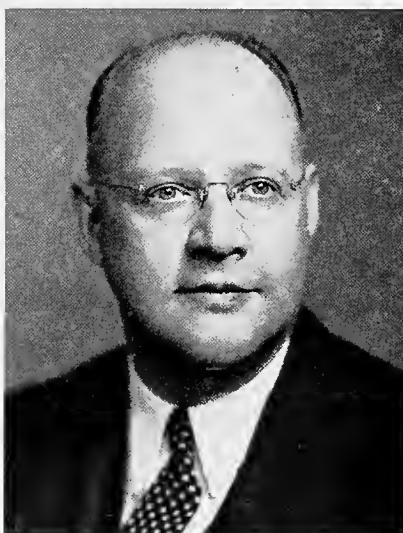
PITTSBURGH, PENNA.

TIPS FROM THE TOWER

IMRESSED were members of the New York State Chamber of Commerce last month when Tom M. Girdler, '01, chairman of the board of the Consolidated and Vultee Aircraft companies and of the Republic Steel Corporation, revealed to them plans for a new giant bomber-transport that could span the Atlantic in a few hours with 400 passengers, or when used as a bomber could make non-stop trips to Europe and return. To emphasize his statement Girdler declared: "Today's planes give you only the barest hint of what you are going to see in the near future. The Consolidated B-24 Liberator is one of the biggest planes in the world and one of the fastest, with a speed well over 300 miles an hour, but alongside of the aircraft of tomorrow the giant Liberator will look like a toy plane. The same brilliant minds that conceived our present large flying boats have planned this greater airplane to the point when industry could begin production on it.

WHEN Pratt & Whitney Aircraft recently completed three new branch plants it was only natural that Leicester H. Lancaster, '16, a member

of the Factory Manager's staff, be appointed general superintendent of Plant "M" located at East Longmeadow, Mass. Always interested in the managerial end of industry, Mr. Lancaster was employed by the Winchester Repeating Arms Company following his graduation from Lehigh, but resigned when the United States entered World War 1 to accept a commission as engineering officer in the Navy's Transport Service. Following the war, he joined Pratt & Whitney Tool Company as plant engineer, and



DR. ROBERT MACFATE, '25
"the first was well received"

helped set up the new facilities for the new Pratt & Whitney Aircraft Company when it started operations in a section of the tool company plant in Hartford early in 1925.

FOR years Frederick C. Berg, '25, Norwegian born naval architect and chemist, has been manufacturing pleasure boats at his plant on the Sassafra River at Georgetown, Md. But with the advent of the war, alumnus Berg scrapped plans for future pleasure craft, began to manufacture stout thirty foot boats to be used by the Navy to ferry ammunition to seaplanes. Gradually production was increased at

this Eastern Shore plant until now a new ship, ready for duty with the fleet, slides into the water each week. Pleased with such fast construction, government officials awarded the Army-Navy "E" last month to the Berg Boat Company and its employees, and awarded additional contracts for forty-five foot picket boats to be used by the Naval forces.



CHARLES E. DINKEY, '25
"interested in securities"

LONG recognized in Pittsburgh as an outstanding dealer in securities, Charles E. Dinkey, Jr., '25, received new acclaim recently when at the annual meeting of that city's stock exchange he was elected to head the organization for the next year. A graduate of Lehigh's school of Mining Engineering, alumnus Dinkey soon became interested in securities, obtained a seat on the Exchange, and gradually rose to the enviable position he holds today.

ASSISTANT professor of pathology at the University of Illinois and an executive of seven other organizations, Dr. Robert P. MacFate, '25, found time last month to publish the second edition of "Clinical Laboratory Diagnosis," a book whose first edition was well received by the medical profession. Author of "Outline for Chemistry" and numerous papers on clinical pathology, biochemistry, and hospital laboratory planning, Dr. MacFate, who resides in Chicago, numbers among his other activities the presidency of the National Association of Embalming Colleges, ownership of the Warsham College of Mortuary Sciences, and a directorship in the Merkocide Chemical Corp.



TOM M. GIRDLER, '01
"to emphasize his statement"



A HIGH HONOR FOR YOUR DAUGHTER

THE NAZIS look upon us as a degenerate nation. But they have a great respect for our accomplishments. And, if they win, they may decide that we have something in our blood which they can use in building their master race.

For they're great believers in eugenics, these Nazis. They're strong for selective breeding.

You they may cast aside and put to some ignominious task, such as scrubbing the sidewalks or sweeping the streets. But your daughter...well, if she's young and healthy and strong, a Gauleiter with an eye for beauty may decide she is a perfect specimen for one of their experimental camps.

A high honor for your daughter...

Does this seem a story spun in the

realm of fantasy? It isn't. It is now happening, all through Europe. The latest experiment of the victorious Nazis has been to ship Austrian and Hungarian girls to the Northern countries. The result of these unions...unblessed, of course, by matrimony...will not be known for some time. But the Nazis, you must admit, are not above innovation.

Two, three, four, five years from now they may ship American girls to some far corner of the earth...may select your daughter...if you relax, if you fail to do your part now. If you say, hopefully, "It can't happen here. We can't lose."

No, we can't lose. We can't afford to. We must not. Else all the terrors, all the degradation, all the misery and suffering that have been loosed upon Europe

will be loosed upon us. We of all people will not escape it. We shall be the chosen...we shall be the elect...in the Nazi scheme of things.

We who have only just begun to win. We who risk the danger of resting on our new-won laurels and considering the job done.

This is no time to relax. This is the time...the opportune time...to do all we can to get this war over sooner.

We *must* measure up to the job!

AMERICAN LOCOMOTIVE

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OF TANKS • GUN CARRIAGES • ARMY AND NAVY
ORDNANCE • STEAM AND DIESEL LOCOMOTIVES



The Science Front in Winning the Peace

by
DR. C. C. WILLIAMS

IN A RECENT address before the British Association, Ambassador Anthony J. Biddle said that science can make a contribution of incalculable importance both to winning the war and to winning the peace. That the war is being waged by scientific devices is a matter of common remark, but that science will contribute largely to substantiating an enduring peace has not been so generally recognized. If by the vague phrase "win the peace" we mean not by a perfect formula to found Utopia, but practically over a long period to make peace secure by repairing the ravages of war, rehabilitating the national economy, promoting international accord, and restoring a faith in the future for youth, then we may rightly say that science will make a major contribution to winning the peace. With candid discussion of many of the political issues of postwar reconstruction closed for the duration in order not to obstruct the war effort, it seems opportune to call attention to the part that dispassionate science will have in perfecting peace.

Although a point of departure may be found in the forthcoming peace conference, "winning the peace" will be the hard task of mankind in the dec-

ades to follow. The effort will begin with an impoverished, hungry, hating, disillusioned, diseased and discouraged world. That no superhuman formula for peace, justice, and prosperity will emerge may be taken for granted, since the statesmanship available for participation is not superior to that at Vienna or Versailles, the military operations may be less decisive, and the issues are less clearly defined in the groups of national systems involved. In the flood of articles and books on the theme now appearing, one detects no emergence of a clear concept of either objectives or procedures in a new world order. Historic precedents will be of less value than formerly because changes in the technologic and economic conditions will be even greater than in the past. In the new treaty, we may expect large nations and small states to be agglutinated into regional systems contemplating an ultimate over-all federation endowed with a measure of governmental powers. Probably the treaty will endeavor to erect a frame for labor rights, social security, racial tolerance, and many other social complexities. These elements will all be compromised in proportion to the statures of the statesmen participating. If the re-

sultant treaty should not be organically adaptable to future changes in customs and world outlook, it will probably be a dead armistice rather than a living peace. At best, not more than a beginning will be made by the treaty; and at its conclusion, the benignant forces of civilization must take over and endeavor to win the peace in the years to follow. Of these forces, science within the past century has come to front rank.

I MEAN by science the systematized body of knowledge concerning natural phenomena with special reference to cause and effect relationships. It comprises unbiased observation of pertinent facts and rational interpretation of their significance, and is thus distinguished from other branches of intellectual activity which relate knowledge to chronology, esthetics, human customs, or to speculation about the unknowable. Science operates to build up a universal firmament of established truth and tends toward order, system, and efficiency. Generally independent of time, its conclusions apply to the future as well as the past; being objective and absolute in its system of reference, it is detached from the view-

point of locale and any differences of opinion are not pertinent to nationality. There is no sharp line of demarcation between science and other disciplines, notwithstanding profound differences in their typical methodologies. The boundary between pure and applied science has been essentially obliterated by the two-way passage of research in their respective domains. Although cause necessarily precedes effect in time, inferences of *post hoc ergo hoc* frequently made in analyses of historic events are not necessarily valid. Rigorous tests of the casual relationship are essential to scientific treatment. Science, therefore, denotes a mode of thinking as well as certain bodies of knowledge to be included in a consideration of its effects on peace.

In the first place, science can give the world organization a nervous system commensurate with social complexities in the generations ahead. Democratic stability and effectiveness are dependent on means to disseminate information and procure responses of public opinion other than by an archaic political campaign. Electronic communication can perform this function. The democracies have settled their mutual controversies without war for well over a century because of their responsiveness to public opinion. The embers of war lie in the lag of knowledge more than in a bellicose disposition of peoples. The Triassic dinosaurs disappeared from the earth in the struggle for existence chiefly because of an inadequate nervous system, and the organism of human society must be nervously equipped in order to survive. We are entering an electronic age. In America, thirty million homes own a total of nearly sixty million radio sets. Most of the population knew of the attack on Pearl Harbor within an hour. It is estimated that ninety-two million listened to the President proclaim the national policies two days later. Broadcasts in many languages cover the globe and short wave transmission reaches out-of-the-way corners. Through facsimile, our home radios will probably soon be printing a digest of the morning news while we sleep. Television, despite inherent limitations, is on its way to supplement factual information. International communication is the basis of understanding and co-operation, the approach to peace.

MORE perfect communication among peoples may be expected to foster acquaintance and thereby promote intellectual and professional co-

operation independent of and supplementary to the international relations conducted by governments. The economic functions of government under either capitalism or socialism have so multiplied as to place on statesmen powers and responsibilities which transcend human capacity and character. The result is that too much of the life and destiny of mankind is contingent on political decisions. The "honor of the nation" which people are asked to defend, consists unduly of the careers, the temper, and the "face" of government officials. Strengthening international ties in education, labor organization, industrial associations, learned societies, and the professions would enable people to co-operate through channels other than those of government. Electronic communication will tend to spread international amenities and co-operation along the whole boundary of vital contacts between peoples. Moreover, federation on the basis of occupations might supplement that predicated on geopolitics. Sovereignty, a relic of the egotism of absolute monarchy, requires redefinition when through modern communication "We the People" may express mass purpose and when through the same instrumentality peoples in different countries may develop a great variety of common interests and ways of co-operation outside the political relationships. If radio were organized on a world basis independent of all political governments, war would become obsolete. Universal communication renders independent sovereignty obsolescent, and makes world organization inevitable, either by force or by federation.

The rehabilitation of the national economy, which will be necessary to substantiate a positive peace, will be the function of efficient industry, which in turn will derive from technologic production under the system of free enterprise. The history of applied science records inventions active under free enterprise and stagnant or insignificant under collectivism. Not only will the arsenal of democracy have to be reconverted into businesses and homes, but a new era worthy of the best year of American industrial tradition under profit incentive will be required to yield the colossal national income and the individual satisfactions fundamental for the economic vigor essential to a successful peace. The annual production will have to be sustained at about the hundred billion dollar level; homes and a living must be in

the picture with career opportunities to induce effort; and a surplus of commodities and of credit resources will be needed to supply hungry nations. Industries that have succumbed as war casualties will have to be revived, farms will have to yield more, and new products that people will labor to possess will have to be created.

What those new products will be lies below the horizon at present. Automobile plants converted to airplanes may create a popular model for common uses, or turn out helicopters that can be landed in the back yard and kept in a garage, or devise an "amphimobile" that will disengage its flying gear and continue on the street from the airport. Sanitary engineering will provide new protections to health. Not only will pathogenic bacteria be removed from drinking water, but by means of ultraviolet rays they will also be removed from the air in public buildings to effect a diminution in colds and influenza. New devices may eliminate noises above a prescribed decibel limit conducive to nervous disorders. Conservation of water resources offers benefits not yet realized. Stream improvement and flood control will prevent the annual toll of damage by training rivers to serve rather than to destroy. Only a beginning has been made in extracting wealth from the ocean bed. Scientific research will be employed cooperatively in small industries as well as in large. Reserves of public works may well be stored up pending the close of hostilities when twenty-five million displaced workers will seek jobs, many of whom will have to be employed for a time on public works. If directed in accord with engineering design, their labor will yield national wealth; if directed by politics, it will yield boondoogling and debt.

IN world competition, science opens the only remaining frontiers available for exploration and colonization without military opposition. The chemistry of conversion can produce many goods and substitutes more cheaply than natural products can be shipped from distant ports. The coal tar industry netted more wealth for Germany than has any of her wars for imperial expansion. The wealth produced by such inventions as the cotton gin, the self-binder, the radio tube, and the electric light exceeds that derived from England's richest colonies. The total profit from the Philippines is a fraction of their cost and less than that recov-

(Continued on page twenty-one)



THIS message is addressed to a very limited audience—the 500 alumni who have demonstrated their interest in football by financially supporting Alumni Student Grants.

The remaining 9500 Alumni need not concern themselves with these remarks. I am not going out of the way to be unpleasant. Nevertheless, when 9500 Alumni permit 500 of their brothers to carry the entire load, certain conclusions are inescapable. This is a fact and you can draw your own conclusion — football victories in 1942 completely failed to budge the inertia of indifference of 95 per cent of the Alumni. Therefore, I am on firm ground in assuming the subject matter of this article can have no possible interest to the overwhelming majority of our Alumni. That it will interest and encourage the 500 men who bear the burden, is a reasonable anticipation.

To give you a true picture, I am forced to indulge in personalities. Nick Funk, Chairman all four years of the Alumni Student Grants Committee, has performed an outstanding job. This is not flattery. An examination of the records of his Committee substantiates this statement. His administration has been characterized by firmness and justice. Ken Smiley, Director of Admissions, took over the writer's draft of the Plan and translated it into good, plain English. Further, he participated in nearly all Committee meetings and passed upon the scholastic qualifications of the applicants. When you consider not a single recipient of Grants has flunked, you realize his worth to successful functioning. Glen Harmeson and later George Hoban attended all Committee meetings. As Head Coaches they voiced their opinions of the football abilities of the applicants. Our football record of the past season is the answer to the type of help they gave us.

At the start of last year's football

Don't Let Go

by

C. F. LINCOLN, '11

season, 17 men were recipients of Grants and all were on the Varsity Squad because the Freshman rule was waived. It is evident last year was the first fair test of the Plan. We had a right to expect improvement. Well, the record speaks for itself. Five games won, two games lost and a tie with Lafayette. Without minimizing the efficient work of the coaching staff, this record would not have been attained without Alumni Student Grants material. I will put it a little stronger, our "Grants" boys constituted 90 per cent of the material. Definitely, this team was not the off-spring of an accident.

There is more to the story than the satisfaction Lehigh men receive by seeing their team win. The attendance was 30 per cent higher in 1942 than in 1941. This figure assumes real importance as football attendance country-wide last year declined. Further, gross receipts from football were \$8000 greater than in 1941. Let me put it this way—you 500 men are responsible for adding this sum to the revenues of the "University." This is entirely apart from your contributions to Alumni Student Grants.

The immediate future of intercollegiate football is admittedly uncertain, but there is nothing uncertain as to our obligations under the "Plan." We promised these 17 men financial aid until graduation. Several have entered and more are about to enter the Armed Services. In all probability, not over five or six of the boys will remain by

this coming June. Our aid naturally ceases to the men who have left, but if they return to Lehigh to complete their education and require aid, we are obligated to give it. Also, we are obligated to continue financial aid to the men who remain in the University even if football is not played this fall. In brief, the uncertainties of the present do not affect the present and future operations of the Plan insofar as our financial commitments to the recipients are concerned. Naturally, if football is not played next fall, your Committee will not make awards to new men. I stress the important fact that football or no football this fall, your Committee has definite and potential commitments to meet. The situation, obviously, requires continuous financial support. Does not the present emergency further afford the opportunity to build up surplus funds? A comfortable bank balance would permit a far more efficient operation of the Plan when conditions return to normal.

Through four years this Plan has operated on faith, hope and charity. Do not the results now warrant support on the realistic basis of value received? The Plan has brought splendid young men into the Lehigh Family. It has made Student Body and Alumni proud of the football team. It has shown that five per cent of the Alumni can take hold of a difficult problem and make a success of it. The job we have undertaken will never be finished. We have the bear by the tail, but—*DON'T LET GO.*



Lehigh students learn the tired swimmers carry so that they will be able to rescue others not trained in water safety.

IN the not too distant future some recent Lehigh man, whose ship has been torpedoed from under him, may owe his life to the fact that the swimming program at Lehigh is now based on the premise that it is better to stay afloat for one hour than to be able to swim one hundred yards in fifty-five seconds. Ever since the United States entered the war, and our ships became prey for prowling

Axis undersea craft, it has become increasingly apparent that many lives can be saved if the men in our armed forces know how to keep themselves afloat for long periods of time.

But for years the art of endurance swimming has been a lost one, because in the years preceding the war, emphasis everywhere was placed upon speed swimming. Coaches and swimmers alike searched far and wide to develop new techniques in order that times could be lowered. Swimming clinics were held for the sole purpose of developing faster swimmers. Yes, endurance swimming like many other things was neglected in the rush to develop speed and more speed.

Now all this has changed. We are suddenly becoming water safety conscious. We are beginning to realize that our inability to remain afloat may cost not only our own lives, but the lives of thousands just like us. Notice, I have said "our inability to remain afloat" which does not necessarily mean swimming. Isn't it surprising that a supposedly intelligent group of individuals had to experience disaster before the true facts were properly interpreted?

Now that the facts are known, what is to be done about them? Are we going to say "yes, swimming is important," and let it go at that, or are we going to make a determined effort to have every man, woman, and child in this country become a safe swimmer? Lehigh is assisting in this latter plan by offering a course in Life Saving and Water Safety. This course which is compulsory for all students in the Naval Reserve Corps should be compulsory for every student in the University, both now and after the war.

The structure of man and his method of locomotion on land are the two factors which make swimming an unnatural activity, and as a result, the ability to swim is acquired rather than inherited. In order to fully familiarize our men with this unnatural habitat we teach them a simple stunt known as "bobbing," which is nothing more than lowering the face into the water for approximately two seconds and raising it out of the water for two seconds. We believe this to be essential because while giving you the experience of being completely submerged it also affords a maximum degree of safety. This stunt is also helpful in developing the proper breathing technique which is so helpful in endurance swimming. After the students have developed the ability to "bob" they are taught the elementary backstroke. This stroke is of value because it 1) helps to acclimatize the men in the basic position used in floating for long periods of time; 2) provides men with self confidence in the water; 3) provides restful means of swimming without sacrificing power and stamina; 4) provides the safest method of swimming and maximum protection against the explosion of depth bombs (a study of the human anatomy will verify this fact); 5) provides safety when abandoning a ship since a swimmer can readily observe others and prevent them from jumping upon him.

In order to prepare for all emergencies, the breast stroke and side stroke are also taught. The former is valuable for military swimming because 1) it is energy conserving and yet provides power and reasonable speed; 2) it enables swimmers to carry military equipment; 3)

We Must Swim to Live

by

RICHARD L. BROWN

provides the swimmer with a silent propelling movement; 4) slightly modifying the stroke by carrying the head higher than usual will permit the swimmer to swim with a reasonable degree of safety through water strewn with wreckage. The side stroke is valuable because it enables men to tow military materials, and because most life saving carries are performed with a modification of this stroke. If one has an injured arm he can also propel himself forward with this stroke. Of course, there are many other strokes, but we feel that the three discussed above are all that are needed in a swim to live program.

DUE to the fact that many of our men might be forced to enter the water from great heights, we are also stressing the proper methods of jumping into water. Jumping blindfolded from a height of ten feet or more is very desirable because it helps to establish equilibrium, aids in eliminating fear, and simulates the act of pulling the shirt over the head to prevent oil from getting on the face. The so called "pile driver" jump, is done by holding the legs with the knees drawn up and with the face and head protected on the chest. The body is kept in a ball and landing on the buttocks is emphasized because it creates a large splash and will either extinguish fire or leave a space in which to breathe.

Without a doubt no swim to live program would be complete without instruction in underwater swimming. A man who can swim under water will be able to avoid strafing, escape from the wreckage of a plane or ship, and will also be able to aid in the rescue of shipmates. The possibility of being forced into the water fully clothed is recognized, and as a result, students spend a lot of time swimming with their clothes on (except for shoes). Experiences recounted by members of our armed forces have proved that clothing, if left on, helps to conserve body heat, and that shirts and trousers can be used as floating supports. Clothing prevents the white bodies of the men from attracting sharks or barracuda, and also prevents exposure.

If you had to remain afloat for a very long time without the use of artificial devices how would you do it? The chances are that you would either attempt to float or tread water. Floating is, undoubtedly, the better method of the two because it enables one to rest and keep the head above water for an indefinite period of time. However, if you are unable to float (perhaps you lack buoyancy or the water might be rough) the ability to tread water will prove to be very useful.

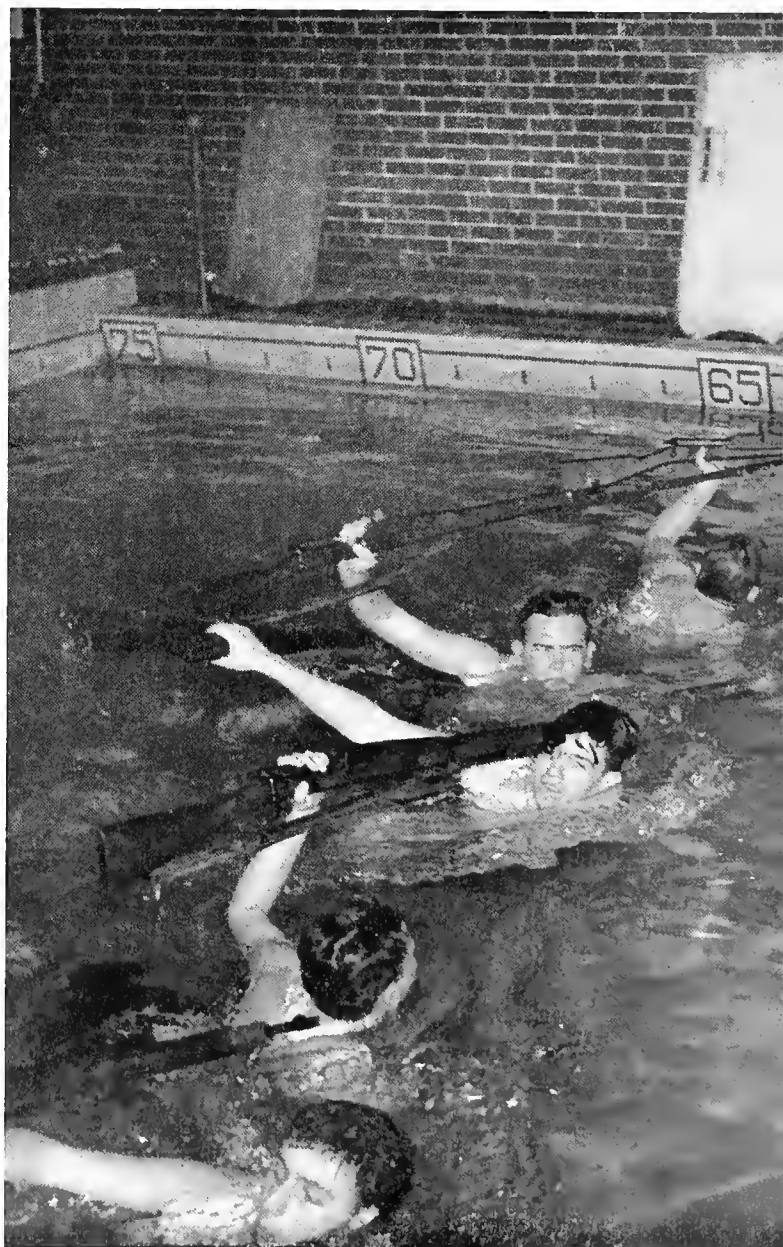
Surface diving, both head and feet first, are given special attention because it develops the all around water ability of the individual. It enables the swimmer to submerge at will; it permits him to retrieve objects beneath the surface, and it furnishes the swimmer with excellent means of avoiding obstructions, and strafing from planes. Our program at Lehigh is completed by including a number of hours of Life Saving fundamentals. To teach Life Saving in all of its phases would be impossible because of the limited time, but an attempt is made to teach our men the carries, breaks, approaches, blocks, and parries, because it is a recognized fact that life saving develops confidence

Lehigh's popular new swimming coach takes time out this month to write about a new trend in swimming tactics—a water safety program now being taught in American colleges so our future soldiers and sailors will, if necessary, be able to remain afloat many hours

for personal safety, provides means of saving others, eliminates popular misconceptions and fear, develops endurance and aids in psychological adjustment.

After the students complete the course as outlined above, it is the belief of Lehigh's department of Physical Education that our men will, if necessary, be able to save themselves and their comrades, and thus be of greater service to their country not only in time of war, but also in time of peace.

The training becomes realistic when the boys learn how to swim silently while carrying their rifles above their heads.



Here is your opportunity to read about the plan which will help you to establish contact with a friend or classmate who is now in the service.

Lehigh and College Registration Service

EVERY Lehigh man in the service who is transferred from one camp to a new location and then discovers too late that he has been five miles from an old classmate for over three months can hardly be expected to be happy about it.

Likewise, many civilian alumni living near military and naval cantonments discover weeks later that a friend has been stationed there during his entire training period. In both cases, a chance for an old-time reunion has been missed for the lack of a timely address.

Realizing the importance of this problem, especially to enlisted men whose opportunities for entertainment are more limited, a group of alumni executives met in New York in January to work out a general plan so that such contacts might readily be established both throughout this country and the world. Represented in that original group were Harvard, Lafayette, Lehigh, Michigan, Princeton, Rutgers, Yale and Virginia.

It was immediately realized that no alumni office, no matter how well equipped, could hope to maintain a day-to-day record of the goings and comings of alumni in the service at a hundred or more points throughout the world. After a number of plans had been discussed it seemed best to establish, preferably in a hotel near camps or training centers, a "College Registration Center" where all alumni in the service would be asked to register. A record book in loose-leaf form would provide the opportunity to establish a page for any college, with the registrant being asked to state his current service address and the length of time he expected to remain at that particular point.

Because of the scope of such a program it was immediately obvious that only a coordinated effort by alumni executives of an even larger number of colleges would be necessary to provide a real service to alumni under arms. The original group, however, undertook the proposition on an experiential basis in 15 localities immediately adjacent to military or naval cantonments.

Of this group, five are already represented by College Registration Service headquarters and some 20 to 30 additional stations are expected to be announced within the next week.

Invitation to Lehigh Officers

Independent from the College Registration Service but of interest to Lehigh alumni in commissioned ranks of the Army, Navy and Marine Corps, will be open invitations to the facilities of the Officers' Club of the Norfolk Navy Yard and the University Club of San Francisco.

Lieutenant George Collier (Rutgers, '29) U.S.N.R., has extended a cordial invitation to Lehigh officers to avail themselves of the privileges of the Officers' Club at Portsmouth. Lieutenant Collier, who is in charge of the Officers' Mess at this post, explains that the Club operates on a non-dues, non-profit basis and contains a cocktail room, bowling alleys, billiard tables, squash, handball and tennis courts, and a swimming pool.

A schedule of fees for the facilities of the University Club of San Francisco is available on request at the Club.

ASIDE from the basic value of permitting college men in the service to locate each other quickly in given areas, the plan also embraces cooperation of civilian alumni in the locality concerned. Thus, when Camp Dix is chosen as one of the focal points, it is logical that enthusiastic alumni of all colleges represented in Trenton, New Jersey, might be expected to cooperate. Lehigh, along with other universities, names a Trenton man to serve on a committee which arranges for the registration center, the placing of the register book and its maintenance. This having been done, the committee gets in touch with the special services officer at the nearby military post (in this case

Fort Dix) and provides that notices giving the location of the registration center are posted on the camp's bulletin board.

Where a regular news letter is sent from the campus to men in the service, as in the case of the Lehigh Alumni Office's "Lehigh Passes in Review," all alumni in the service are advised from time to time of the establishment of new registration centers at points which they would normally be visiting in their week-ends or leave periods in town.

An additional interesting proposition is that the Army Women's Volunteer Service may cooperate directly with the College Registration Service and thus expand its work to hundreds of other points throughout the country.

AMONG Lehigh representatives who are currently working on local committees are the following:

Atlanta, Ga.—N. C. Harrison, '05, Vice President, Atlantic Steel Company, P. O. Box 1714, Atlanta.

Baltimore, Md.—L. C. Crewe, Jr., '29, 4302 Wendover Road.

Buffalo, N. Y.—William A. Lownie, '32, 65 Courtland Drive, Kenmore, N. Y.

Dayton, Ohio—J. W. Gehrke, '29, 158 Willowood Drive.

Detroit, Mich.—H. P. Walmsley, '21, Monsanto Chemical Company, 427 Fisher Building.

Denver, Col.—David W. Jones, '38, Carnegie-Illinois Steel Corp., 617 First National Bank Building.

Nashville, Tenn.—C. N. Crichton, '33, General Manager, Super-Service Motor Freight Co., 808 Lea Avenue.

Norfolk, Va.—Whit P. Tunstall, '03, 1022 Westover Avenue.

Providence, R. I.—Norman Alper, '34, 195 Medway Street.

San Francisco, Calif.—Irwin F. Kurtz, '23, Works Manager, Fabricating Division, Bethlehem Steel Company, Alameda, Calif.

Acceptances from some twenty additional Lehigh men, both in this country and abroad, are expected to be received shortly.

LEHIGH undergraduates gave scant notice last month to an administrative published report that one out of every six students who registered for the second semester is now in the armed services, because they knew that by September of this year two-thirds of them would have responded to their country's call, and that less than 400 would return in fall to continue their academic pursuits.

Thus far in the current semester 240 of the 1430 members of the undergraduate body have left the University for active duty. This number includes 225 activated reservists, of whom 113 were Army Air Corps Reserves, and 112 who were Enlisted Reserve Corps men. The other fifteen students were called by their local draft boards. At present there are 257 students in the advanced ROTC, 170 of whom are also in the Enlisted Reserve Corps. The Naval reserves include 343 men, while Enlisted reserves who have not been activated total 37. Still liable to be called before semester's end are 28 Army Air Corps reserves, 16 ERC reserves, and 54 civilian students unable to get further deferment. Indications are that by June 1, 153 advanced ROTC students will be activated, and that 275 of the Naval reservists will be transferred elsewhere to continue their training.

Fully cognizant of the fact that next year's civilian enrollment will drop to approximately 400 men, University of-

Cross-Cutting the Lehigh Campus

ficials have issued a reassuring statement to the effect that sufficient courses will be offered to enable any student to complete his course of study. True, some courses may be curtailed, but any student, not called to the service, will be able to obtain a degree from any one of the three colleges in the University.

Despite the anticipated slump in student enrollment, faculty and administrative heads will not be idle, because by September 1, 1200 army men will be stationed on South Mountain to receive training in various technical subjects. The first contingent, comprised of 400 trainees, is expected to arrive by the end of this month, but so far no complete program of activity has been released. However, it is very likely that the army men will have a scholastic day similar in length to the

present one. Following the afternoon classes a drill or exercise period will be held until 5:30 p.m. when the cadets will adjourn for dinner. A strict curfew law will be enforced and no trainee will be permitted off the campus without special permission from the commandant in charge.

THAT plans to accommodate the soldier students have not been held in abeyance was evidenced this month when President Williams announced that the first group of trainees will be housed in the dormitories and that present dorm students will be transferred to campus fraternities, many of which have already suffered a great loss in membership. As additional men are sent to Lehigh it will be necessary to use the facilities of off-campus fraternities because eventually all of the campus living groups will be used exclusively by the army.

Realizing that the army men will have little time for extra-curricular

Below: Dancing couples pause to listen as band master Bobby Sherwood gives out with a few "hot licks" during the students recent Interfraternity Ball.



activities and since civilian enrollment will be sharply reduced, executive heads of Lafayette, Rutgers, and Lehigh conferred last month and agreed to curtail their respective spring athletic programs. It was agreed that home and home contests will be played by members of the Middle Three and that other nearby traditional rivals will be met. However, all of these games will be considered less important than a well rounded intramural program, and none of the scores will be included in official Middle Three records.

Convinced that all work and no play makes Jack a dull scholar, undergraduates last month forgot for a moment the imminence of a call to the colors, and enjoyed the traditional Interfraternity Ball held this year on both floors of spacious Grace Hall. Unlike big campus dances of other years, the ball this year was strictly informal. Absent were the brilliantly colored evening gowns, the fragrant corsages, and the formal dress of undergraduates, but all of the 800 couples who danced to the soft music of two well known bands, declared this dance one of the most successful in recent years.

Now that the Interfraternity Ball has successfully passed into the pages of campus history, undergraduates are eagerly anticipating the week-end of April 16-17 when the annual spring houseparty will be held. In granting permission for this dance, administrative heads stipulated that the Junior prom must be shown to be a financial success at least a week before it is held. A second and more important stipulation is that housing accommodations for guests must also be arranged one week in advance. Under present conditions this would present little problem, but there is a possibility that the Army will send its first contingent to the campus before that time, and then there would be a definite problem.

Seniors who will soon leave South Mountain to take up the cudgels of war, were pleased to learn last month that His Excellency Rodolfo Michels, Chilean ambassador to the United States, will be the principal speaker at May commencement exercises. No stranger to Bethlehem, the Ambassador visited the campus last October, and was conducted on a tour of the campus. Scheduled to be held May 24th, Lehigh's seventy-sixth graduation program will probably be the last "normal" commencement until the end of the war.

June Reunion -- A War Casualty

After months of uncertainty officials of the Alumni Association decide to cancel reunions until the end of the war.

ON March 12, officers of the Lehigh Alumni Association approved a recommendation postponing annual reunions for the duration of the war. Thus ended a period of uncertainty which for months had delayed action by class reunion chairmen.

Principal reason for the decision rested with the Army's plans for sending military students to the campus. Only in the past fortnight has it become reasonably certain that some 400 Army men would take over the dormitories as barracks in April. With dormitories full and the Hotel Bethlehem limited to a maximum of 50 rooms for transients, Lehigh men would have found scant accommodations.

Still reluctant to call off class reunions, the Alumni Office, revising its plans, worked toward a one-day program centered around a more formal noon luncheon on Saturday. Army mess demands ruled out the customary Lamber-ton hall immediately and efforts were made to cater the luncheon to Grace hall. After continued negotiations, however, it became apparent that food prices, food rationing, and labor shortage would force caterers to withdraw even the most exorbitant bids.

The traditional class day parade had long since been dropped from the planning as being in particularly bad taste on a campus filled with marching men preparing for war.

As if to provide a fitting climax to the already obvious writing on the wall, a communication from the Treasury Department was received urging all colleges to abandon alumni reunions and devote the money ordinarily spent to the purchase of war bonds.

The comparative short length of World War I, combined with a much greater latitude in normal living, had made it possible to hold continued reunions through that period, but Vice President Walter R. Okeson, '95, who at that time was executive secretary of the Alumni Association, concurred in the decision that a parallel could not be drawn with 1943 and that reunions must temporarily be abandoned.

One notable page will be taken from the alumni proceedings of the past war. In the June following the end of hostilities, all classes, regardless of their "reunion year" will be invited to return to the campus for the biggest alumni week-end in the history of Lehigh.

First major university to cancel reunions, Cornell was praised by Treasury Secretary Morgenthau, himself a Cornellian, who stated: "It is a double barreled contribution to the war effort because it both relieves the strain on our transportation facilities and assists our war financing. By following Cornell's example thousands of schools and colleges could help bring victory nearer and at the same time strengthen their educational resources for after the war."

In support of Morgenthau's suggestion that reunions be cancelled for the duration, ODT director Joseph B. Eastman said: "Colleges are helping to ease the terrific strain on the country's transportation system in foregoing their reunions for the duration and buying war bonds for their alma mater with the money such travel would have cost them. Our railroads need all the help we can give them in handling vital wartime traffic."

New York Lehigh Club

One of the largest Alumni meetings ever held in the Metropolitan area will take place early in June under the sponsorship of the New York Lehigh Club, whose president is Fred E. Portz, '17. More than one thousand Alumni and friends of the University are expected to attend this meeting which will be held in the ballroom of the Waldorf Astoria Hotel.

A program featuring several well known American leaders is being arranged by the executive committee, and full details will be announced later. However, all Alumni and friends have been invited to attend this dinner, which may well take the place of the annual alumni reunion, which has been canceled for the duration.

A highlight of this meeting will be the presentation of the honor cup to Earle S. Johnson, '07, Vice President of General Motors Corporation. This trophy is awarded annually by the New York Club to a Lehigh alumnus who "through service to the University and to his community has earned his 'L' in life." Others who have been so honored since this cup was first offered in 1939 are: Dr. Eugene G. Grace, '99, President of the Bethlehem Steel Corporation; William C. Dickerman, '96, President of the American Locomotive Company; Tom M. Girdler, '01, Chairman of the Board and President of the Republic Steel Corporation, and Alvan Macauley, '92, President of Packard Motor Car Company.

A prominent Lehigh alumnus who will be one of the principal speakers at this dinner is Brig. General Alfred R. Glancy, '03, who at present is located at the Tank Automotive Center in Detroit, Michigan where he is Deputy Chief of Ordnance War Department. It will be remembered by those alumni who returned to the campus last June, that alumnus Glancy was one of the main speakers at the annual alumni banquet held in the ballroom of the Hotel Bethlehem.

While no definite date has been set for this meeting, the committee in charge has revealed that it will be held

sometime between June 4 and 12. There is also a possibility that an all day program will be arranged at this time, so that alumni planning to attend the evening dinner will be able to hold informal reunions with friends and classmates.



EARLE S. JOHNSON, '07
"Fifth To be Honored"

Southern California Club

Eager to learn about current activities on South Mountain members of the Southern California Lehigh Club met Wednesday, March 10 at the Clark Hotel in Los Angeles and heard A. V. Bodine, '15, past president of the Alumni Association, and a member of the Board of Trustees, describe the University's position in relation to war time problems.

Mr. Bodine, a citizen of Bridgeport, Conn., was on the west coast transacting business, when the Southern California Club met. He readily agreed to speak, and gave the members present a word picture of the University as it is today. He touched on all phases of Lehigh's war program, and emphasized the need for alumni support if the University is to continue as a ranking engineering college. He explained the

accelerated program under which the college is now functioning, and declared that campus life will be greatly changed when trainees sent by the Army arrive at Lehigh for their technical training.

H. D. Wilson, '01, introduced the speaker, and D. H. Kirkpatrick, '17, president of the club presided. Others present at the meeting were: H. S. Morrow, '88, S. E. Lambert, '89, C. Walker, '89, F. D. Ammen, '96, H. O. Duerr, '90, R. M. Merriman, '06, E. C. Weinsheimer, '06, A. G. Small, '09, A. F. Ennis, '15, H. W. Tice, '15, A. H. Schuyler, '15, R. S. Campbell, '18, K. E. Heimbach, '19, W. C. Winterhalter, '19, R. M. Stettler, '18, D. H. Fiscus, '29, and C. M. Masson, '99.

Aberdeen Lehigh Club

A review of campus activities during the past year featured a meeting of the nineteen Lehigh alumni now stationed at the Aberdeen Proving Grounds, Md. Held Friday evening March 26 at the officers club the meeting was in charge of Captain Gregory C. Lee, '37, and the principal speakers were Bob Herrick, '34, Alumni Secretary, and Len Schick, '37, BULLETIN Editor.

Herrick in his talk told the assembled officers about war time conditions at the University, and briefly reviewed the changes that are taking place in undergraduate life. He stated that the University is doing everything to cooperate in the war effort, and that many important and secretive research tests are being made at Lehigh.

A review of recent athletic campaigns was given by Schick who briefly discussed the successful wrestling and football seasons. Prior to his talk a motion picture of the Lehigh-Rutgers football game was enjoyed by all of the officers.

Present at the meeting which was preceded by a dinner served at the club, were Major H. O. Nutting, '27; Captain Ben D. Beach, '33; Lieut. Malcolm Cooper, '33; Major Donald V. Cooper, '36; Lieut. Arthur E. Smith, '37; Captain Gregory C. Lee, '37; Lt. Carl Martinson, '38; Lieut. David Holmes, '39; Captain Alan S. Grant, '39; Lieut. Graham A. Delany, '40; Lieut. Edward J. Fitzgerald, '40; Lieut. Bernard Altshuler, '40; Captain Fred Kornet, Jr., '40; Lieut. Joseph Hammond, '40; Lieut. Robert C. Engle, '41; Lieut. Albert Clark, Jr., '42; Lieut. John H. Dudley, '42; Capt. J. C. Clark, physics faculty '27-'29; and Lieut. A. E. Pitcher, mathematics faculty, '38.

This Month with the Lehigh Alumni Clubs

Life Among

Less than eighteen months have passed. To these gallant alumni



The first combat photo taken through the periscope of an American submarine, this picture shows a Japanese destroyer sinking after it has been torpedoed.

WOUNDED in recent African engagements with Axis forces, many of America's fighting men have been shipped to England where they now lie in hospitals recuperating from the rigors of the war. Some of these men, less seriously wounded than their mates, are eagerly anticipating their return to the front lines, but to many others, crippled by Nazi shells and bullets, the war is over. They have done their work well, and now look forward to the day when they will re-join their families in this country.

One of those who has paid the price,



LIEUT. ROBERT GREEN, '43
"in action with the Marine Corps"

Captain James P. Mayshark, '36, was commander of an M-3 tank on the road between Tebourba and Tunis. Interviewed recently in a British hospital by a famed correspondent for a metropolitan daily Captain Mayshark's first question after being introduced was "How'd Lehigh do in football and please tell me about the World Series." When informed that Lehigh had a good season and that the Yanks were finally dethroned, this former Brown and White grid star, slapped his good leg and patted the cast on his left, which was fractured when an 88 mm. shell perforated the turret, ending the war for him.

"Boy that's swell," he sighed. That's worth six doctor's visits, and weeks of mending.

Asked to tell about his experiences on the African front, Captain Mayshark said, "It was about 3:00 p.m. December 6 and we were approximately nine miles north of Mejez el Bab enroute to Teboura. I was leading a company of General Grant tanks towards the German position, trying to relieve our armored infantry, which was then surrounded. This was our second attack toward that purpose, so we expected trouble and we were not disappointed.

"Moving up a gradual incline in an open area toward a cactus ridge, our ride this sunny afternoon was busted wide open by exploding 88's. The Germans had masked their battery and

evidently were screening their tanks. We saw no flashes, indicating they were using smokeless powder. That's the trouble with such fluid warfare, you can't always spot the enemy's guns. So we just kept on firing in their general direction. Of course, we suffered from lack of reconnaissance in this case, but our boys closed in, determined to get the infantry out.

SEVERAL shells hit near us, and then from 800 yards one got us smack in the turret. It killed a sergeant beside me, knocked hell out of my leg and set the inside of the tank afire. There was little cover and no rocks or trees in that flat country. And now the howitzers opened up, and the mortars were shelling us, but still we saw no flashes. It was like fighting an invisible guy who is beating you up because you are unable to get hold of him. I rolled under the tank and was lying there when another tank stopped and took me back. I don't remember much after that. I don't know what happened to the others or if we ever got the infantry out."

The correspondent concluded his dispatch by writing: "Captain Mayshark's recital is typical of every wounded tank man's story. They usually don't know what hit them and only guess at immediate events. Mostly they pick up the threads from first aid bases, but the attack is an instantaneous, cataclysmic thing out of the clear sky. They spend quiet days in the hospital afterward, days broken by news of a daughter's arrival—Mayshark's was born to his wife in Louisville, Ky.—days hoping to get back to see her. They cannot wholly piece together the missing moments when life and death hung on the shattered fragments within a stricken tank."

Second story of heroism this month tells how First Lieutenant Adolf F. Haffenreffer, '40, went to the assistance of two wounded soldiers and a wounded Marine at one of the hottest spots on Guadalcanal. Details of the escapade were revealed by one of the men he aided in a letter to friends in this country. The soldier writes: "A

Lehigh Service Men

... Pearl Harbor, but already many Lehigh men have been dec-
... hundreds now preparing for future battles this feature is dedicated.

couple of inches more and I'd have been a dead duck. The outfit was in the thick of fighting on Guadalcanal. I buried a little Jewish boy just before dark the night I got hit. I had to lay on my belly to dig his grave as there were plenty of things flying around. That was the toughest job I ever had, and one I'll never forget. He got hit in the head, and never knew what hit him. I threw my gun away and took his. I sure hope I got the Jap that did it, but you can't tell if you get them or not.

WHEN I got hit, I saw another soldier and we were trying to get a wounded Marine who had been left out all night, back to the first aid station. The other soldier was hit in the stomach and lived only a short while. I hollered and soon Lieutenant Haffenreffer slipped out and brought both of us back, but the other man was already dead."

The soldier rescued by Haffenreffer also stated that the contingent commanded by this young alumnus had ring side seats at the big naval battle which took place November 12 and 13. Of this battle he writes: "We sat on a hill and watched it. Boy. Was that something. All we could see were the shells going back and forth, and every once in a while a ship would burn or explode. Five Jap ships landed within a couple of miles of us, and we were not able to do anything. However, the Air Corps took care of them. Oh, there is plenty to talk about, but I can't put it in writing."

What Lehigh means to a young alumnus now on duty "somewhere in Alaska" is aptly described by Lieutenant William Logan, '42, who writes: So much has happened in the past nine months since graduation. My first assignment to the Santa Ana army air base in California lasted four months, then I received secret orders, and I certainly thought I was headed overseas. After making all the necessary preparations for a sea voyage, I found myself going to Alaska, and here I still remain after four and a half months.

"At present I am an engineering

officer working in the hanger, getting planes in shape to fly to unknown destinations. Here at this base we live in a "country club" I'd say the best barracks I've yet seen—and in Alaska too. I have also spent two months as commanding officer of a small post, three hundred miles from the nearest town. It was wild and rugged country—nature in the raw. When you flew over this land with its snow-capped mountains and hidden valleys, you saw places where no man has ever trod. The wild country was really beautiful. It was a wonderful experience.

"Yes, Lehigh is showing its true characteristics and doing a grand job in the armed forces throughout the world, and also back on the home front. Whenever things get a little tough and a feeling of loneliness creeps into me, I think of graduation day when we sang the Alma Mater and heard the bugle playing taps. Yes, that is a good booster, and certainly aids to relieve that lonely feeling."

LAATEST Lehigh men to be commissioned are Lieutenant Robert L. Green, '43, and Ensign Joseph D. Scott, '42. Both of these men comple-



ENSIGN JOSEPH SCOTT, '42
"his training has been completed"

ted their training program last month and were immediately assigned to active duty. Lieutenant Green, who resigned from college last year to enter the air corps, completed his training at the Naval Air Station at Jacksonville and was commissioned in the Marine Reserve Corps. Ensign Scott enlisted in the Naval Air Corps immediately, following his graduation last June and was assigned to the Reserve Aviation base at Philadelphia for basic training. Later he was transferred to Corpus Christi where after nine months of advanced training he received his wings

This Navy photo shows four Jap bombers coming in low at Guadacanal to attack U. S. transports, extreme left. Black bursts are American anti-aircraft shells.



Lehigh's Roll of Honor

Each month the BULLETIN will publish a partial list of Lehigh men in the service. Complete addresses will be furnished to Alumni upon request.

CLASS OF 1929

Pvt. A. B. Achilles, Kearns, Utah.
Major E. F. Baker, Camp Edwards, Mass.
Capt. L. H. Bender, Pentagon Bldg., Washington, D. C.
Capt. T. F. Benton, U. S. A.
Capt. S. P. Coates, Medical Corps, U. S. A.
Lt. W. H. Dorsey, Langley Field, Va.
Sgt. J. P. Evans, MacDill Field, Fla.
Major W. O. Heilman, Picatinny Arsenal, Dover, N. J.
Capt. H. C. Kilpatrick, U. S. A.
Lt. (j. g.) J. I. Kirkpatrick, Office of Procurement and Materials, Washington, D. C.
Lt. E. Lyons, Navy Bldg., Washington, D. C.
Lt. M. McLachlan, Camp Lee, Va.
Lt. A. J. McNickle, Camp Davis, N. C.
Major W. Martindale, Pentagon Bldg., Arlington, Va.
Capt. J. T. Neath, APO 932, c/o Postmaster, San Francisco, Calif.
Lt. W. J. Pollitt, Harvard Univ., Cambridge, Mass.
Lt. S. G. Prokop, Fort Ord, Calif.
Lt. E. C. Quinlan, Santa Ana Air Base, Santa Ana, Calif.
Lt. J. S. Scandale, San Francisco, Calif.
J. E. Schaefer, Fort Tilden, N. Y.
Capt. C. M. Schwiter, Watertown, Mass.
Major R. A. Visco, Ord. Office, Governors Island, N. Y.
Lt. E. J. Warlow, Fort Belvoir, Va.

CLASS OF 1928

Capt. J. G. Bent, Pentagon Bldg., Washington, D. C.
Lt. T. F. Burke, Fort Eustis, Va.
Major R. A. Canning, Radford Ordnance Works, Radford, Va.
Lt. C. M. Christman, c/o Fleet Post Office, San Francisco, Calif.
Lt. A. C. Evans, Fort Belvoir, Va.
Lt. R. E. Flynn, U. S. N. R.
Lt. Col. Z. C. Hopkins, Edenton, N. C.
William E. Musser, Army Air Corps.
Lt. N. G. Schreiner, Ordnance Dept., U. S. A.
L. R. Schreiner, Ordnance Dept., U. S. A.
G. M. Simes, U. S. A.
Lt. G. J. Speicher, U. S. A.
Lt. A. H. Trumbull, Quartermaster's Office, San Francisco, Calif.
Capt. D. C. Vaughan, Army Specialist Corps, Washington, D. C.



ALFRED R. GLANCY, '03
"He is a Brigadier General"

CLASS OF 1927

Lt. E. S. Albright, U. S. A., overseas.
Lt. R. M. Bush, Commerce Bldg., Washington, D. C.
Lt. E. A. DeWolf, Widener Bldg., Philadelphia, Pa.
Lt. J. R. Hertzler, Office of Procurement, Washington, D. C.
Major Paul Ketterer, Army War College, Washington, D. C.
Capt. H. W. McCord, Gravelly Point, Washington, D. C.
Major H. O. Nutting, Aberdeen Proving Ground, Md.



LIEUT. COL. DANIEL H. TORREY
"Represents the Class of '08"

Capt. H. L. Phyfe, APO 871, c/o Postmaster, New York City.
Major R. N. Pursel, APO 616, c/o Postmaster, New York City.
Capt. J. G. Ridsdale, Edgewood Arsenal, Md.
Capt. M. W. Schaeffer, U. S. M. C.
Capt. W. F. Wilmut, Silver Spring, Md.

CLASS OF 1926

Lt. D. C. Buell, U.S.N.R., Naval Advisor, W.P.B., 17 Court St., Boston, Mass.
Pvt. D. F. Hayes, Will Rogers Field, Okla.
Major D. A. Heath, APO 1209, c/o Postmaster, New York City.
Rev. A. M. Holloway, Chaplain, U. S. A.
Lt. (s.g.) S. G. Mastriani, c/o Postmaster, San Francisco, Calif.
Lt. J. W. Maxwell, Army Exchange Service, Princeton, N. J.
Lt. W. deH. Washington, Fort Tilden, N. Y.

CLASS OF 1925

Lt. J. T. Burton, U. S. A.
Lt. W. F. Colclough, Fort Sill, Okla.
Capt. R. P. Davis, APO 510, c/o Postmaster, New York City.
Lt. Victor Dykes, Army Air Base, Colorado Springs, Col.
Major P. E. Fingean, Selective Service Hdqs., Trenton, N. J.
Lt. H. E. Greene, Transport Corps, Brooklyn, N. Y.
Capt. E. P. Jones, Drew Field, Fla.
Lt. J. B. Walker, U.S.N.R., Navy Yard, New York City.

Lt. Col. L. D. Moreland, Washington, D. C.
H. C. Martin, District Ord., Birmingham, Ala.

CLASS OF 1924

Lt. W. D. Ayers, Great Lakes Engr. Div., Chicago, Ill.
Lt. G. B. Blakeley, U.S.N.R.
Lt. Col. C. M. Bortz, War Dept., Washington, D. C.
Lt. S. R. Davidson, U.S.N.R.
Capt. C. E. Grace, Navy Dept., Washington, D. C.
Pvt. R. M. Harper, Camp Forrest, Tenn.
Pvt. L. A. Laux, Fort Meyers, Fla.
Capt. E. E. Quinlan, Santa Ana, Calif.
Pvt. B. H. Reese, Camp Lee, Va.
Major S. L. Sattenstein, APO 913, c/o Postmaster, San Francisco, Calif.
Lt. P. E. Schwartz, Municipal Airport, Brownsville, Texas.
Lt. E. L. Stauffer, Miami, Florida.
Major J. C. Swartley, Pentagon Bldg., Arlington, Va.
Lt. E. K. Thompson, Holabird Ord. Motor Base, Baltimore, Md.
Lt. R. D. Warriner, Orlando, Fla.
Lt. Comdr. A. N. Wiegner, Bureau of Yards & Docks, Washington, D. C.

CLASS OF 1923

Capt. S. E. Abel, Brownwood, Texas.
Capt. F. S. Cornell, Luke Field, Arizona.
Major W. M. Hoke, U. S. A.
Lt. G. A. Huggins, U.S.N.R., Federal Bldg., New Orleans, La.
Capt. J. D. McPherson (reported missing in Philippine Is.)
Capt. Russell Rubba, Station Hospital, Fort Niagara, N. Y.
Lt. H. R. Talmage, Army Air Corps, Miami Beach, Fla.
Capt. E. VanKeuren, Chemical Warfare School, Edgewood Arsenal, Md.

CLASS OF 1922

Comdr. G. B. Gelly, c/o Fleet Post Office, San Francisco, Calif.
Major C. H. Greenall, Ord. Dept., Frankford Arsenal, Philadelphia, Pa.



CLYDE R. FLORY, '20
"Now a Lieut. Commander"

R. D. Hughes, U. S. A., Camp Dix, N. J.
 Lt. Comdr. H. B. Mason, Naval Hospital,
 Norfolk, Va.
 Lt. C. S. Satterthwait, APO 939, c/o
 Postmaster, Seattle, Wash.

CLASS OF 1921

Capt. J. C. Fretz, Fort Knox, Ky.
 Lt. Comdr. S. R. Kaufman, U.S.N.R.
 Lt. Comdr. D. G. Maraspin, U.S.N.R.
 Lt. Col. A. T. Wilson, U.S.A. (foreign
 duty)

CLASS OF 1920

Lt. Comdr. C. R. Flory, c/o Postmaster,
 New York City.
 Major E. B. Ilyus, Fort Monroe, Va.
 Col. A. J. Wick, Camp Shanks, N. Y.

CLASS OF 1919

Lt. A. M. Henry, Army Air Corps, De-
 troit, Mich.
 Lt. J. A. Kunbel, Navy Dept., Washing-
 ton, D. C.
 Lt. Comdr. G. R. Macdonald, World-
 Chamberlain Field, Minn.

CLASS OF 1918

Major W. T. Statts, Harrisburg, Pa.

CLASS OF 1917

Lt. Comdr. J. A. Carlson, foreign service.
 Lt. L. A. Dawson, Securities & Exchange
 Commission, Philadelphia, Pa.
 Lt. Col. H. C. Dayton, Fort Mason, Calif.
 Major L. F. Hagglund, Camp Upton,
 N. Y.
 Lt. Comdr. H. R. Merwirth, U. S. Naval
 Hospital, Brooklyn, N. Y.

CLASS OF 1916

Comdr. O. L. Carlson, Bureau of Yards
 & Docks, Navy Dept., Washington,
 D. C.
 Col. M. W. Kresge, Picatinny Arsenal,
 N. J.

CLASS OF 1915

Lt. Col. W. G. Ingram, Ft. Benjamin
 Harrison, Ind.
 Capt. P. M. Teeple, Camp Wallace,
 Texas.
 Lt. Comdr. M. G. Tull, Puget Sound
 Navy Yard, Bremerton, Wash.
 Col. H. L. Vitzthum, Ft. Monmouth, N. J.

CLASS OF 1914

Col. H. D. Jay, Camp Beauregard, La.
 Lt. Col. T. G. Shaffer, Army War Col-
 lege, Washington, D. C.
 Capt. E. C. Seibert, U.S.N.

CLASS OF 1913

Lt. Comdr. William Seguire, U. S. Ord.
 Plant, Macon, Ga.

CLASS OF 1912

C. A. Gauss, U.S.A., Orlando, Fla.
 Lt. Col. Burton Hartley, Ft. Barrancas,
 Fla.
 R. V. Parker, U.S.A., Canal Zone.
 Major Gen. A. M. Patch, Jr., c/o Post-
 master, San Francisco, Calif.
 Lt. Col. Morton Sultzter, Pentagon Bldg.,
 Washington, D. C.

CLASS OF 1911

Col. C. A. Schwarzwaelder, Office of the
 Quartermaster Gen., Washington,
 D. C.

CLASS OF 1910

Major E. M. Killough, Camp Lee, Va.

CLASS OF 1908

Col. F. T. Leilich, APO 869, c/o Post-
 master, New York City.
 Col. D. H. Torrey, Governors Is., N. Y.

CLASS OF 1906

Col. L. Mercader, U.S.A.
 Major Gen. P. H. Torrey, U.S.M.C., New
 River, N. C.

CLASS OF 1903

Brig. Gen. A. R. Glancy, War Dept.,
 Detroit, Mich.

Summary of Lehigh War Service Record

Class	Comisioned Officers	Training for Commissions	Privates or Seamen	Killed, Missing, or Died in the Service	Non-Commiss- ioned officers	Total
1898	.....	.....	.....	.....	.....	.....
1899	.....	.....	.....	.....	.....	.....
1900	.....	.....	.....	.....	.....	.....
1901	.....	.....	.....	.....	.....	.....
1902	.....	.....	.....	.....	.....	.....
1903	1	.....	.....	.....	.....	.....
1904	.....	.....	.....	.....	.....	.....
1905	.....	.....	.....	1	.....	.....
1906	2	.....	.....	1	.....	2
1907	.....	.....	.....	.....	.....	.....
1908	3	.....	.....	.....	.....	3
1909	.....	.....	.....	.....	.....	.....
1910	1	.....	.....	.....	.....	1
1911	2	.....	.....	.....	.....	.....
1912	4	.....	.....	.....	.....	4
1913	1	.....	.....	.....	.....	1
1914	3	.....	.....	1	.....	3
1915	4	.....	.....	.....	.....	4
1916	2	.....	.....	.....	.....	2
1917	5	.....	.....	1	.....	5
1918	1	.....	.....	.....	.....	1
1919	3	.....	.....	.....	.....	3
1920	3	.....	.....	.....	.....	3
1921	4	.....	.....	.....	.....	4
1922	6	.....	.....	.....	.....	6
1923	4	.....	.....	1	.....	4
1924	15	.....	3	.....	.....	18
1925	10	.....	.....	.....	.....	10
1926	6	.....	1	.....	.....	7
1927	11	.....	.....	.....	.....	11
1928	13	.....	.....	.....	.....	13
1929	20	.....	2	.....	.....	22
1930	31	.....	2	1	.....	33
1931	35	.....	6	1	.....	41
1932	24	.....	3	1	1	28
1933	31	.....	2	1	1	28
1934	41	.....	7	.....	1	49
1935	43	.....	3	.....	4	50
1936	50	1	6	1	.....	57
1937	48	2	2	.....	2	54
1938	74	2	8	3	5	89
1939	86	3	18	2	11	118
1940	114	5	21	6	10	150
1941	117	5	14	6	4	140
1942	150	18	46	2	12	226
Totals	968	36	144	29	51	1,199

The Month i

Despite the fact that many players paced by Billy Sheridan's undefeated

Lehigh team entrained for New Haven and that afternoon scored its second victory in as many days by toppling a powerful Yale team 22-5. In this meet the Engineers won six bouts, tied one, and lost one to keep their dual record clean. The only bout lost was in the heavyweight clash when Winter, seemingly tired from his bout of the preceding evening, lost a 7-4 decision to the Eli's Bob Pickett. The latter, the smoothest edition of the ever present brothers who have carried the Blue banner throughout the past decade, led all the way, and almost scored a fall in the closing minutes of the bout. Yale's other points were scored in the 155 pound bout when Bob Bird of Lehigh and Don McCullough wrestled to a draw. This was probably the best bout of the afternoon but neither man could gain the advantage.

IMEDIATELY after the Yale match, Lehigh's hopes for an undefeated season were temporarily dimmed when Winter was called to active service by the Army Air Corps. and departed for basic training at



A Lafayette forward scores a field goal, but the Engineers smarting under a six game losing streak from behind to win the traditional cage contest, 49-47.

WHEN Billy Sheridan intimated several months ago that Lehigh would have a "pretty fair" wrestling team this year he was guilty of understatement, because this squad, the thirty-second to be coached by Sheridan, has successfully campaigned an undefeated season. Such teams as Syracuse, Cornell, Indiana, Yale, Penn, Lafayette, Penn State, and Princeton, have all fallen in the path of the Brown and White's march toward the Eastern Intercollegiate crown.

But the title quests ended disastrously when a powerful Navy team swept aside all opposition, won five individual crowns, and easily annexed the Eastern diadem. The Engineers failed to win a title, and placed a poor fourth when Captain John Stockbridge and Roy Zackey placed second and third in their respective classes.

The Brown and White matmen opened their season with easy, one sided victories over Syracuse, and Cornell, but it wasn't until the follow-

ing week when Indiana came to town that the grapplers displayed their real wrestling ability. Rated as one of the best teams in the midwest the visitors were no match for the Sheridan men and lost 24-6 in a thrilling meet which saw Lehigh win six of the eight bouts.

Outstanding bout of the meet was the heavyweight encounter in which sophomore Frank Winter pinned the Hoosier's burly John Bochnicka in the first of two overtime periods. Bochnicka, who doubles as heavyweight boxing champion of the Big Ten, outweighed the Brown and White man by twenty-five pounds, but was unable to secure any advantage in the regulation bout. Early in the first overtime period Bochnicka took Winter to the mat, but the latter quickly reversed positions, secured a half nelson, and scored a quick fall. Bochnicka was so amazed by the turn of events that he refused to proceed with the second overtime period.

Early the following morning the

The undefeated matmen. First row (left to right) Frank Winter. Second row (left to right):



Lehigh Sports

Lehigh's winter athletic teams, compile a better than average record

Miami Beach. However, the vacancy caused by Winter's departure was filled by freshman Reed Fulton who after two successive victories was rated as the "dark horse" in the Eastern Intercollegiate heavyweight division.

Fulton first made his appearance in the varsity lineup against undefeated Pennsylvania and it was his spectacular fall over Penn's Ed Grain that gave the Engineers a cherished 17-14 victory. With the score 14-12 in favor of the Red and Blue, Fulton secured an early advantage and held it until the final minute of the bout when he succeeded in pinning Grain's shoulders to the mat.

Undefeated for twenty-two consecutive meets the Penn team started off like a whirlwind by winning decisions in 121 and 136 pound classes, and gaining a draw in the 128 pound division. However, veteran Ken Swayne put the Engineers on the winning path when he threw Bob Montgomery midway in the 145 pound bout. Seemingly inspired by this victory Bob Bird, wrestling in the 155 pound bracket sent Lehigh out in front when he

Christ, Capt. John Stockbridge, Whit Snyder, De Long, Bob DeLong, Roy Zackey.



All eyes are on the ball which eventually goes in the basket for another two points for the accurate shooting cagers wearing New York University's colors.

tossed Harold Ayares with a grapevine and wrist lock in 8:06 of their bout.

However, Penn came back and took the lead when Fred Utter defeated Captain John Stockbridge in the 165 pound class, and Dick Di Battista, Red and Blue strong man decisioned Whitney Snyder in the lightweight division. Di Battista who had won eight-one successive bouts, had his hands full with Snyder, and it wasn't until the closing minutes of the bout that he was able to build up enough advantage to warrant the decision of the referee.

A week later the Engineers took to the road, traveled to State College, and defeated the Nittany Lions 18-11 in a meet which was considered the upset of the season. Champions of the East in 1942 the Blue and White team won three decisions and gained a draw verdict to score eleven points, but the Sheridan coached matmen scored two falls, and won two decisions to gain the coveted victory.

SHERIDAN BANNON started the scoring for Lehigh in the opening bout when he won a handy 6-2 victory over Mattern in the 121 pound clash, but the Lions came right back and knotted the count when Ridenour decisioned Bob DeLong 6-0 in the 128 pound bout, and then the Blue and White assumed a 9-3 lead by winning decisions in the next two bouts. Fred Christ who has been alternating with Bob Bird in the 155 pound division brought Lehigh within striking distance once again when he registered a 6-2 decision over Lindsay, and in the next bout Captain Stockbridge wrestled two overtime periods with Reeve before the officials declared the match a draw.

At this point the Engineers assumed control and went into the lead when 175 pound Whit Snyder pinned Conrad after five minutes of aggressive wrestling. With victory hanging in the balance Fulton went to the mat with the highly touted Bob Morgan in the heavyweight bout, and after narrowly

averting a fall in the early minutes, the Lehigh man came out on top and pinned Morgan twice in rapid succession to clinch the victory for Lehigh.

Using several Junior Varsity grapplers, the Engineers entertained Lafayette the following week, and kept their record clean by defeating the Leopards 28-8. The matmen scored falls in five of the six bouts won, and lost only in the 145 pound division and in the heavyweight class. The Maroon men were aggressive, but lacked the finesse of Sheridan's team, and at no time threatened to win.

The Sheridan coached team concluded its dual season by scoring an impressive 14-12 victory over the Princeton Tigers coached by Jimmy Reed, '27. Each team won four bouts, but Lehigh gained the necessary two points to win when Bob DeLong came through with a fall in the 128 pound bout. Best bout of the evening was the 135 pound encounter when Roy Zackey met Captain Taylor, Princeton's defending Eastern title holder. Late in the opening period Taylor took Zackey to the mat to score two points. From here on until the end of the bout Zackey held his own, but at no time was he able to get a definite advantage over his more experienced opponent.

Basketball

Ever since the start of the second semester the Brown and White cagers have been battered from pillar to post and as a result six successive defeats were endured before the Gordon coached quintet snapped its losing



Coached by Sergeant George Gasda the Brown and White riflers compiled a creditable record, but lost close matches to West Point and Annapolis marksmen.

streak to defeat Lafayette in the traditional game. Hardest hit of all Lehigh teams, the courtsters lost more than three quarters of their members to the armed services, and hence Coach Jim Gordon was forced to spend most of his time in an effort to train capable replacements for those who departed.

Early in the season it seemed as though Lehigh's basketball fortunes were riding high, but then the Army started activating college students and it wasn't long before only the remnants of a once well balanced squad remained. After defeating Brooklyn Col-

lege 41-38 late in January the team went into a slump and lost two games to Muhlenberg, and single games to Lebanon Valley, Drexel, New York University, and Rutgers. In most of these contests, the Engineers got away to a flying start, but could not maintain the pace set by their opponents.

Smarting under these setbacks the team concluded its home season by scoring a surprising 49-47 victory over a better than average Lafayette team. One of the most thrilling played this season the game was closely contested and at no time did more than four points separate the two teams.

Swimming

After losing their first two meets to Temple and Rutgers, the Brown and White swimmers came back to defeat Swarthmore, Pennsylvania, and Fordham on successive week ends. But an otherwise successful season was spoiled when the Maroon swimmers from Lafayette invaded Taylor pool and copped a cherished 52-23 victory.

Most interesting meet of the season was that with Pennsylvania, and despite the fact that Coach Dick Brown took only ten men to Philadelphia the team succeeded in winning four of the seven individual events and split even in the relay races. The meet was closely waged throughout and twice the score was deadlocked, but in the final event, the 400 yard free style relay, the Engineers came through with the necessary points to score a 41-34 victory over the highly rated Penn mermen.

Undeclared all season in the 50 yard free style event Captain Dave Schaper brings new laurels to Lehigh as he wins the Eastern Collegiate swimming crown.



The Science Front in Winning the Peace (Continued from page six)

ered through chemistry from agricultural waste. The cost of war has mounted with mechanization so that war has become an unprofitable enterprise in comparison with scientific research, and therefore less likely to suit the purposes of political entrepreneurs of the future.

Synthetic chemistry will tend to make large countries more self-sufficient with regard to strategic materials and thereby obviate many areas of international friction. Fabrics made from milk may diminish the demand for wool, and those from cellulose may prevent silk from ever regaining place as dress goods. The wild hog of the Orient, the source of natural bristles, will no longer furnish our brushes, since synthetic bristles are even now being manufactured which are cheaper and better. Plastics are replacing natural products for utensils and ornaments, furniture and automobile bodies. Artificial rubbers or rubber substitutes seem likely to emancipate temperate climates from the bondage of tropical latex. Shoes and luggage, increasingly made from plastic sheeting, will require fewer hides from abroad. The recently discovered similarity between the polymers of silicon and those of carbon may yield a new creation of glass fibers and fabrics. Ceramic lumber may largely replace wood for buildings. Chemistry has already overcome our dependence on overseas deposits of sulphur and saltpeter. Chemical substitutes may set natural limits to tariff barriers and clarify the significance of isolation; they may, be adding compulsion to reason, even make tariffs and international currencies scientific rather than political.

New foods, flavors, and drugs may emerge from the laboratory to change trade routes and markets. Five-year-old steer will be as tender as a veal club steak. Vitamins may be expected to increase in variety and potency to extend the period of youthful vigor and defer the evening of life. Chemotherapy has just been born. If new power sources should be discovered within the atom or new efficiencies evolved, automatic manufacture will be increased and workers may become machine tenders, thereby eliminating labor as a basis of social group organization.

SCIENCE may be expected ultimately to overcome the offensive advantage of the airplane, the tank, and the submarine, which at present favor

aggression. Their delicate mechanisms are vulnerable and their utilization is hazardous when their mechanisms are unreliable. National armament is essentially a race between instruments of attack and means of defense against such instruments: the shield against the sword and spear, the coat of mail against the pike and arrow, trenches against shells, and armor plate against cannon. Who can tell how soon a remotely controlled air torpedo may fly into the face of an airplane or tank, or an automatic subaqueous explosive be drawn to a submarine with destructive effects. Even a subtler force might be devised to paralyze their controls. A humane science will persist until it gains control of all its creatures so that they may be subject to the will of men in peaceful endeavors.

The utility of scientific achievements may do much to restore hope and faith in a future for youth. The operations of war will snuff out the lives of many young men; with almost equal tragedy, they will destroy the faith of many more through disillusionment and cynicism. Unless a hope of a job and home appears along the vista ahead, mere peace will be empty for the returning soldier. Even with a more socialistic government, the opportunities in public service are limited. The truism that man does not live by bread alone does not dispute the importance of bread. Even casual conversation with college youth and with young men in service reveals the concreteness of their postwar aspirations. No political adjustment of national boundaries will be accepted as a substitute for their fulfillment.

One final science, unfortunately too long neglected, may, through its advancement, be significant in the ultimate winning of the peace, namely, *demology*, the science of social or collective activities. The fundamentals of group psychology have been too generally postulated by resolution or by edict rather than systematically observed. In this respect, social organization is much in the state of exploration or religion when ecclesiastical votes or bulls fixed the relations of the solar system and the shape of the earth. A "treatise on the *demos*" dealing with actualities rather than hypothecations should deduce correct fundamentals. For example, a period of frenzied feelings but distorted observation gave us the declaration that all men are created equal,

whereas, if there is anything that is self-evident to an unbiased observer, it is that men are created widely unequal and infinitely varied. This principle was recognized in the parable of the talents and in other literature hoary with age. That men are born to equal political rights is a matter of social agreement, not of genetics. Education has recently recognized individual differences and is building more securely on that foundation. Construing democracy to be a government of hypothetically equal units instead of by a *demos* of actual people with normally distributed capacities has led to much of the weakness of the American republic. A statute to confer equal rights and responsibilities contrary to Nature's gradation of capacity and character is as irrational as would be a law to require all objects to float on water. No power of state can reverse biological laws to make all men equal in capacity, and social organization, to be most successful, should apportion responsibility in accord with Nature's scale. Individual differences, being sporadic, do not yield class differences, and hence negate the Marxian doctrine of inevitable class struggle, another instance of biased postulates with purblind observation. Scientific demology would produce efficient democracy, the basis of enduring peace.

IF the peace treaty at the close of the war chooses to envision the future rather than to avenge the past and set the clock back, science may be a healing balm in international relations. Through providing common interests and means for effective co-operation, it can foster a will to peace. Through inventive creation, it can aid in rehabilitating the national economy and in satisfying many national quests, thereby decreasing areas of international friction. To this end, researches, the well-springs of invention and industrial progress, must be maintained amid the sacrifices of war. Production, if research is adequately prosecuted, will yield the new opportunities that will restore hope to a discouraged world, the great imponderable of peace. Science has brought a new character to warfare; it may be equally influential in peace. Science practically won the last peace for Germany; if its potentialities are recognized and utilized, it may contribute incalculably to winning the next peace for all peoples.

FOLLOWING THE *Lives* OF LEHIGH MEN

CLASS OF 1889

George W. Harris, Correspondent
12 Holland Terrace, Montclair, N. J.

In this—the April—issue of the BULLETIN, is presented a picture of the Essex County, N. J., members of the Class of '89. Clarence Hudson on the left and Emil Diebitsch on the right of the group here pictured, are both civil engineers who have spent most of a life time in responsible charge of the construction of monumental structures of distinction. Two other Lehigh graduates, Aubrey Weymouth, '94, and Walter Okeson, '95, who notably were connected with building construction, also had headquarters in New York City. Being naturally thrown together through college ties and similarity of professional occupation, a recreational pursuit further helped to cement an early friendship in the formation of a golf foursome which continued through many years devoted to this great sport on the various links of the metropolitan section, playing on the club grounds of the suburban residence town in which each group member might in turn be host to his friends. As partners Diebitsch and Okeson contested the game with Hudson and Weymouth; it was freely admitted that a week-end of four good stiff contests satisfied—should think it would.

The middle man in the group picture is one Harris who—if an excuse were demanded for his presence in such distinguished company—might have been added to make the group qualify as "The Essex County, New Jersey '89'ers." Any further personal details about Harris might be given on appointment arranged by your press representative.

Recently Emil Diebitsch handed in his fine report to the Nutley Commission, in which he gave the results of his extensive and thorough investigations regarding the conditions affecting Nutley's unsatisfactory water supply. Diebitsch recommended that Nutley make formal appeal for a hearing before the New Jersey State Water Policy Commission. In a supplementary report to the Mayor of Nutley, Die-

bitsch also recommended the use of Artesian wells for obtaining an adequate supply of potable water for the town. The water problem is decidedly a big issue in New Jersey, the whole northern part of the State is very much stirred up over it.

SPECIAL TO THE BULLETIN:

A friend of George E. Manning writes that our classmate has left the family homestead in Yantic, Conn., and is now living in Norwichtown, Conn., R. F. D. No. 8. His chief interest for many years has been genealogy and he has been quite active in compiling data for "The Manning Family" publication.

Justice Cornelius writes that his daughter and her husband (E. H. Harris) are busy with war work in Seattle, Wash.; his son-in-law has also been busy on his engineering job, for example, he has been one of the engineers on the Pontoon Bridge over Lake Washington. Cornelius was at the tie football game in Easton last fall. He was in the 6 to 6 tie game in 1885. Bethlehem papers at the time stated that J. C. Cornelius' tackling was one of the features of the game.

Here the curtain is rung down until, say, the May issue of the BULLETIN.

CLASS OF 1890

H. A. Foering, Correspondent
Bethlehem Trust Bldg., Bethlehem, Pa.

We have a letter from Hugh Stevenson, son of our Charles H. Stevenson, saying his father had been ill and confined to hospitals and convalescent homes since September, 1941. He is improving, but his illness prevents his reading. The class extends sympathy and we hope he will soon be restored to health.

Tex Barrett, who is Chairman of the Board of Directors of the Chamber of Commerce of Norfolk, Va., writes Norfolk, his home town, is inundated with war activities. This delightful southern city, with a normal population of 100,000, has been hoisted by the war to over 300,000 persons. Everybody, he says, has to do his own cooking and laundering, as no domestic help is available at any price. He sends his love to all the class, and says he thinks of them often.

Sox Landis, whose soul is wrapped up in his hobby, Landis Valley Museum, says the war has made it a most difficult job.

F. du P. Thomson writes us a very kind letter from Elkton. He was much grieved to learn of the passing of Prindle, who was one of his dearest class associates.

Our dear Bobby Anderson sends us (among many others) a liberal check for our class treasury. I thought perhaps he might be able to mail me a carload of gasoline, but he says he is an oil producer, and has just contracted to flood his oil properties, which enables him to get his oil out of the ground in quick time, instead of in a few life times. We all want to see Bobby, and it is our hard luck that he has missed all these many reunion banquets in the past. We hope to see him in '45.

Pratt writes that, owing to Mrs. Pratt's illness, he has been wintering in California. We are glad to have him say Mrs. Pratt is improving.

Let me thank you all for your liberal response to my class letter. We are solvent again for the next two years.

CLASS OF 1891

Walton Forstall, Correspondent
Ithan Ave., Rosemont, Pa.

"Ed" Lefevre has died. Here we do not record the tales he wrote or the man he was in the world. We tell only how likeable he was as an undergraduate, how his love for Lehigh and '91 grew with each year, and how he always came back to our reunions. At our 50th he was the life of the party and was just as interested in exhibits of undergraduate days as if he was still a student. It is hard to lose such a loyal comrade.

As I write these words you have just received your copy of the "Lehigh Alumni Fund" and noted that last year '91 had the highest percentage of givers of all classes subsequent to '84. Yet that percentage was only 59, and should have been 100, for when the gift need be only what you can afford, there is no excuse for not giving. Your correspondent hopes that those who had not already given, have now done so. It seems little enough compared with the services of the many Lehigh men in our armed forces.

Plane spotting under starlit or moonlit skies has this year been a wartime avocation of a Florida sojourn.

CLASS OF 1894

Theodore G. Empe, Correspondent
P. O. Box 772, Wilmington, N. C.

If there is any Lehigh news, I have not heard it. In order to keep up with the classes that I knew in college, I read all of the columns and, by and large, all of them seem to be devoid of news. Ayars, correspondent of 1895, is my stand-by. He had a statistical and inquiring mind, and in his last letter he figured that only 16 of his classmates subscribed to the BULLETIN. I doubt if our proportion is as high, and I feel that I have a very select audience to write to. For want of something better, I see that some of the correspondents are making a register of their column. This idea seems to me worthy of extension. If any of you know anything about yourself or a classmate—that is, fit for publication—send it on. It will be a labor of love to tell the Class.

CLASS OF 1895

Walter R. Okeson, Correspondent
Lehigh University, Bethlehem, Pa.

You will be glad to hear, I know, that we have been getting a good response to my letter in regard to the Lehigh Alumni Fund. Already the number of '95 contributors has doubled, and the amount contributed has more than doubled. However, we are still behind last year and I hope you will forgive me if I urge that you get into the picture if you have not already done so. Every year that we live certainly means to us a greater appreciation of what Lehigh did for us—and without any compensation either from us or our parents. Certainly we can never forget that Asa Packer gave us our education free and the least we can do is to help further the dreams of the founder of our Alma Mater.

Enough of that. It seems as though I am always begging for money. However, I get so little news from you guys that I must fill this column with either accolades to the achievements of '95 or else appeals to you to achieve even more.

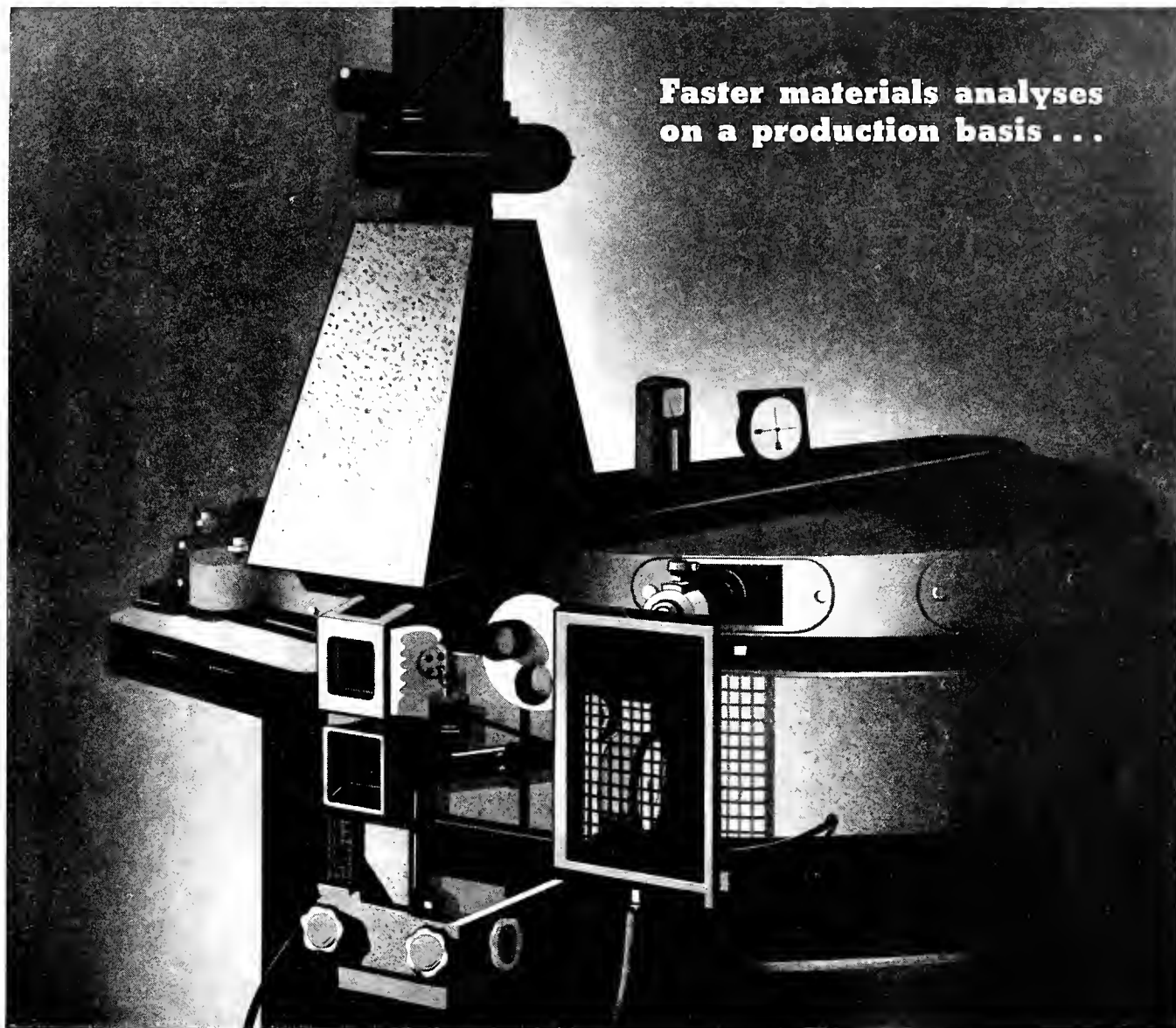
I did get several letters during the past month from classmates but there was little news. In the heading of a letter from Morris L. Cooke I note that his government department is no longer the "Economic Defense Board" but is now the "Board of Economic Warfare." A letter from Bob White reveals the fact that he is in St. Petersburg, Fla., but has no gas with which to drive to Fort Lauderdale to see Harry Phillips. Another letter from Elmer Jacoby tells me that he is back in the teaching harness again (70 years old and still going strong). He is carrying a full roster in the "Math" department of Temple University.

A letter to Van Liew addressed to 180 Ashland Ave., Bloomfield, N. J., has been returned. Can anyone tell me his present address?

It is with deep regret that I close with the news of the death of "Billy" Lambert who passed away on February 19, 1943.



Clarence Hudson, George Harris,
Emil Diebitsch
"The Cream of Essex County"



**Faster materials analyses
on a production basis . . .**

Information supplied by Fairchild Engine and Airplane Corporation

Spectrophot equipment is now being used by Fairchild for the analysis of materials. Such analyses are necessary to insure that the materials meet the exacting specifications required for highly stressed engine parts. No deviation can be tolerated and constant laboratory control must be maintained. With the spectrographic equipment three men can do the amount of work that formerly required thirty.

The operation of the equipment is simple and under-

standable. Pellets from chips of the material form the electrodes of a high voltage circuit. Current passed through this circuit causes these electrodes to spark brightly. The total color of this spark is separated by a grating device into the wave lengths of the colors present and recorded on film. As each alloying element has a definite color characteristic when burned, analyses of the film for density of wave lengths quickly show the ingredients present and the amount of each.

CLIMAX FURNISHES AUTHORITATIVE ENGINEERING DATA ON MOLYBDENUM APPLICATIONS.
MOLYBDIC OXIDE BRIQUETTES • FERROMOLYBDENUM • "CALCIUM MOLYBDATE"

Climax Mo-lyb-denum Company
500 Fifth Avenue • New York City

CLASS OF 1896

W. S. Ayars, Correspondent
269 Leonia Ave., Leonia, N. J.

On March 2nd last, I received a polite little hint to the effect that the deadline date for my "notes" had been advanced to March 9th. This is being written on the morning of Saturday the 6th. I usually run over to Columbia on Saturday, just to keep in touch with old associations and get up to date in University gossip. But what looks like a junior blizzard started about 7 a. m. and shows no signs of moderating; and local transportation around here being entirely by bus, I thought it the part of wisdom to remain on this side of the Hudson River today. I did, however, don suitable apparel and go "uptown" and do some food buying; and by shopping around a bit, managed to get a whole pound of butter. And have any of you mere men done any marketing recently? If you haven't, you have a new experience coming. In one large chain-store (name on request), the place was crowded with determined-looking housewives, each armed with ration-books, pencil and shopping list; thought I was the only male critter in the place but I presently spotted a meek-looking little chap, with a long, drooping and unkempt moustache; and when his turn came, he purchased a half-pound of beans and a bottle of whiskey. I think he must be keeping a bachelor apartment, though he might have been getting the beans for his wife and the whiskey for himself . . . or vice versa.

Enclosed with the letter announcing the deadline date were two of those slips with such information as has recently reached the Alumni Office. One of these read:

'96—Hall, David.

Retired from Westinghouse E. & M. Co. on January 1, 1943.

Res.: 5537 Sunnyslope Ave., Van Nuys, Calif. Mail.

Source of Information, News Release.

and the other one:

'96—Simpson, J. T.

285 Highland Ave., Newark, N. J. Mail.
Source of Information, Postoffice Statement.

The last information I had on Dave Hall is dated March 8, 1933, so it is just ten years old. Dave was then living in Hollywood, so I don't wonder that he moved. I also have a note on his card: "wrote, Oct. 22, 1932." I might add that I am still waiting for a reply to that letter. Well, Dave, now that you are retired, you must have plenty of time on your hands: how about answering my letter of Oct. 22, 1932?

As to John Simpson, my most recent notation on his card is dated 25 N 40 and states that he was then living at 322 Park Ave., Newark. I think if I were living in Newark and had a chance to move, I'd do so; and while I was moving, I'd move well outside of Newark. Did you every try to drive through Newark—or Paterson? If you did, you will understand my feelings. But as John's business is in Newark, he may choose to live there and thus be able to walk to work. That would explain it.

If you, gentle reader, are one of the few '96-ers who can afford to subscribe to the BULLETIN, you may have noticed in the last issue that Pop Pennington makes an insulting remark about my being able to lie in bed in the mornings while he, poor man, has to get up and go to work. You might think that getting up and going to work was some special punishment, of the cruel and unusual sort, reserved for Pop alone. He ought to be glad that he is so old and worn out; otherwise he might be in the Army and being tumbled out of his bed by a stern and callous bugler in the cold and cheerless darkness before even "the dawn's early light." No, I do NOT get up very early these days; but then, I don't go to bed very early, either, and that makes up for it. And I find plenty to do, too; and as soon as the weather gets suitable for gardening, I am going to find plenty more. The seed catalogs have already arrived, very gay and tempting with fancy-colored illustrations of marvelous roses, grapes, carrots, etc. The catalogs say that these illustrations are from actual photographs. If they are, I can only say that people who grew them must be miracle workers. However, to paraphrase a certain saying about figures, it may be that while photographs don't lie, liars can photograph.

To talk shop for a moment: can anybody tell me how the HP of a steam turbine, corresponding to the I-HP of a reciprocating steam engine, is obtained? I have here the figures on a Parsons Turbine of S17 B-HP with an efficiency of 66.5%. To get that efficiency there must have been a divisor. What was it, and whence came it? Please don't all speak at once. I await your replies with interest. So Long!

CLASS OF 1897

J. H. Pennington, Correspondent
P. O. Box 159, Trenton, N. J.

This year of grace, 1943, takes me back just fifty years. Yes, fifty years ago you and I were perhaps thinking of the glory that awaited us. Many rivers were to be set a-fire and a wondering world was to be made to wonder still more as the reverberations of our fame grew louder and more awe inspiring.

September 20, 1893, was the day when we sat together in chapel for the first time and heard Plug Richards read off our deficiencies. He announced that I had flunked my entrance exam in arithmetic. This proved to be a false alarm, but it plunged me into the depths, preventing my doing my best work in resisting the onrush of Sophomores as we left the chapel.

At one time I thought that fifty years was a long, long time. So did you, and so did the 46 of our original group who have passed on. There were some mighty good pals among those who have gone, and some mighty good ones among the 56 still with us. Some day my hearties, I may be writing a letter to myself in this column, as I have promised myself thirty years more of sojourning on this terrestrial ball.

We knew a lot in those days. We were so sophisticated that we could ridicule our elders without end. Men who were three times our age, and who had accomplished more than we have up to day, were "fossies," "has-beens," "old fogies," and other despised beings. It is to be recorded, however, that those who really did know their business, consequently knew more in a worthwhile way than we did, commanded our respect. There were Pop Klein, Pop Merriman, instructors Meaker and Lambert and many others.

"But," says you, and also says I, "has human nature changed?" We know that it has not. We know in our hearts that today we are the "fogies" and all the rest of those foolish things we called our betters. We know that the younger generations (plural) regard us as we regarded our predecessors. The fact that the classes of '96 and '98 deserve such ridicule, while '95, '97 and '99 do not, does not alleviate the sting, because, as I was told many times in my youth, "Every dog has his day."

To avoid repetition, or near repetition of above, send me some printable news of yourselves.

CLASS OF 1900

Once again the shadow of mournful atmosphere is cast upon the class of 1900. A beloved classmate, Harvey S. Seiple, passed away December 29. Death was attributed to both a heart attack and pneumonia.

From 1928 to 1932, Harvey was employed in the City Transit Department of the City of Philadelphia as a track and frog draftsman. From 1936 to 1938 he was employed on the Delaware River Bridge Commission as an engineer on track work. At the time of his death he was employed as a draftsman in the Water Bureau of the City of Philadelphia.

Our deepest sympathy is extended to his beloved ones left behind.

CLASS OF 1901

S. T. Horteman, Correspondent
110 Wesley Ave., Bethlehem, Pa.

We have just received an interesting letter from our New England classmate, "Billy" Gilbert, who hibernates at 51 Wilson Road, Nahant, Massachusetts. Billy writes:

"I am sending you a check with this letter and am sorry it isn't more, but every little, etc."

"I broke up my boat last summer so I am not at the Yacht Club any more though I still keep my membership."

"I am not doing anything of importance, just putter around; keeps me pretty busy in the winter sawing drift wood for the fireplace. I am lucky to be able to get and burn wood during the oil shortage."

"I'm an air raid warden and have to get out on practice blackouts every once-in-a-while. We are all praying the real thing does not come."

"My older boy is in Newfoundland on defense work, but I expect him home any time now. The younger boy is an inspector at the General Electric but expects to go to Pearl Harbor soon. Both were in Iceland last summer but came home when the Sea-Bees took over. Mahlon, the older, was on the ship that burned off New York last fall. Lost all his clothes and baggage but wasn't hurt."

"Hope all is well with you and yours and please remember me to the gang."

Sincerely,
S. M. Gilbert

CLASS OF 1904

J. L. Beaver, Correspondent
402 High St., Bethlehem, Pa.

This month I sent out a second appeal for news and MacFarlane was so conscientious that he sent me a telegram which reads as follows:

"Your letter of the eighth received. Page 29, February issue of LEHIGH BULLETIN tells what we are doing. Regards.
MacFarlane"

The next day I received the following letter from MacFarlane together with the two Bulletins mentioned therein.

"Haven't much time to write. However, I am enclosing copy of our M award by the Maritime Commission. You will notice Lt. General William S. Knudsen was our guest speaker."

"We have over 725 employees in the armed forces now."

"Am also enclosing a copy of the Merchandiser, our house organ. On page 19, in a group picture, I have identified myself, and I hope you will notice that I am not one of the bald heads who has to be haired! On pages 20 and 21 is the correct story as to how the word "Jeep" first became used by the United States Army, and then on page 24, at the top of the page, you will no doubt recognize Lt. Commander Buckie McDonald of Lehigh football fame, making an address at our plant."

"And do not forget to look at page 25, showing Roosevelt visiting one of our plants. You might also be interested in seeing how the ladies dressed during the last world war compared with the present one, as shown on page 28—and in seeing a picture of the real Jeep on the back page."

"I notice Frank Sinn says he can last out the war if his feet and legs do not give out, down in Oklahoma. You can tell him, mine gave out ten years ago, but I am still hanging on. You can also tell Frank Sinn that, as an honorary citizen of Oklahoma City, I should resent his remarks about the State, but I will skip it."

Best regards—
Sincerely yours,
W. C. MacFarlane"

"Moose" McCormick under date of 3-9-43 sends in the following:

"You asked for it—here it is."

"We are trying to get the personnel of the First Air Force in shape for Combat Duty."

"Have been the Director for two years—of course it is work which I am very fond of. Too bad we cannot send the Brown and White some of our desirable looking athletes."

"Regards to Hutch, Hartzog, and the crowd."

Sincerely,
"Moose" McCormick

"P. S. My address (home) is 26 South Third Street, Lewisburg-Union Co., Pennsylvania; (office) Director of Physical Training, First Air Force, Mitchel Field, Maryland."

The latest address we have for Paul J. Luckenbach is 2714 Alhambra Circle, Coral Gables, Florida.


I hope the response next month will be as gratifying as it has been since I took over this job.

CLASS OF 1905

W. H. Lesser, Correspondent
1322 Myrtle St., Scranton, Pa.

Just heard that Henry Clay has been ill but he is now fully recovered and on his job.

Dr. Bill Estes is Vice Chairman for the State of Pennsylvania, Procurement and Assignment of physicians for military service.



Thousands Of Combinations

Are You Using the Best One?

The grinding wheel has a job to do. Out of an army of 100,000 grinding wheels (combinations) you can pick one that can best do your job — find it.

It may mean more production from your present grinders.

It may mean another tank for Uncle Sam or another fighting plane, or bomber.

The best advice: To get the largest possible production from your grinders, call in a Norton Abrasive Engineer.



NORTON ABRASIVES

NORTON COMPANY, WORCESTER, MASS.
BEHR-MANNING DIVISION, TROY, N. Y.

I saw "Spilly" Spillsbury at the annual meeting of the American Institute of Mining Engineers. He looks fine.

At the present time, eight of our class contributed to the Alumni Fund and we should have forty-six. We have raised \$252.00, and our quota is \$1,082.00.

CLASS OF 1906

N. G. Smith, Correspondent
Fort Pitt Bridge Works, Empire Bldg.,
Pittsburgh, Pa.

Seven years ago when your committee was drumming up a successful 30th Class Re-union and Chris was getting into real swing on his 30-year Class History, ("Skin") Arthur C. Flory, Manager of the Steam Turbine Department, Allis-Chalmers Mfg. Company, Milwaukee, Wisconsin wrote to Chris Stouffer and said he would not miss the Reunion and hoped to have a good time.

Flory came on and had a good time. Five years later he planned another trip for the 35th—but, like a half dozen others, had to send a wire of regret on account of war business.

His achievements in the pioneering work and later developments of steam turbines gave him a nation wide reputation. He was proud of his three sons and "the red-headed young lady whom he married five years out of Lehigh."

As this copy goes to the press, word comes from Mandy (Harry) Lee of New York that A. C. passed away on March 1 at his home in Wauwatosa, Wisconsin.

Our sympathy to the family in their bereavement. Our class will miss him.

Next issue Mandy Lee will be your Guest Correspondent and will round up some news from the East.

CLASS OF 1909

E. G. Boyer, Guest Correspondent
Phila. Elec. Co., 1000 Chestnut Street,
Philadelphia, Pa.

Dave M. Petty, our class agent, asked me to take care of the notes that would be in this issue for the Class of 1909.

I wish to support the effort Dave has put forth in having our class support the ALUMNI BULLETIN and all the activities of Lehigh, because, if Lehigh means anything to us we should certainly be willing to contribute something to the support of the activities that keep Lehigh fresh in our memories.

The meeting which the Philadelphia Lehigh Club held at the Bellevue-Stratford on January 29, 1942, was very successful as far as the Alumni Association of Philadelphia was concerned. It was one of the largest meetings they have had in years, and a great deal of its success can be contributed to the successful football season Lehigh had this past year and in recognition of Lehigh's coach, the late George Hoban.

I believe that every man who attended that banquet from the Philadelphia area will always hold it in fond recollection because we not only heard from President Lewis of Lafayette and our own President, Dr. Williams of Lehigh, but it was a tribute to George Hoban himself; and that tribute to Hoban is particularly dear in our memories because we all have heard since that time of the untimely death of George Hoban.

At this meeting Thomas Morgan Eynon, M.E. 1881, was given recognition as being one of the oldest members of the Lehigh alumni around Philadelphia; and this was particularly interesting to the Class of 1909 because Mr. Eynon is the father of Harold Griffith Eynon, a member of '09. There were only four men at this meeting from the Class of 1909: Lou Struble, Dick Wahl, Harold Eynon and myself.

I made no attempt to check on the addresses of the Lehigh men around Philadelphia, but all the '09 men at this banquet realize that it was certainly a poor showing for the class, and I am hoping that any of the 1909 men who are near Philadelphia and receive the BULLETIN will try to get in touch with the rest of us to see if we can't have a reunion once in a while in Philadelphia during the noon hour. I am sure

that if they get in touch with Lou Struble or myself we will be glad to arrange such a reunion.

The uncertainty as to what is going to occur at Lehigh during the duration of the war no doubt has influenced the attitude of many of our alumni towards the support of the University, and I wish to make an appeal now for the benefit of Lehigh that we fellows of '09 do our part in helping the University to pass through the trying times that are ahead.

CLASS OF 1910

M. L. Jacobs, Correspondent
837 Tioga Ave., Bethlehem, Pa.

Steve Page stopped in to see me last week. He is engaged in construction work for the United States Government. From what he says, he would be interested in hearing about any construction work that any of you may know about. He has had an unusual amount of construction experience in the contracting business, and if you know of any work of this kind, I am sure Steve would be glad to hear about it. He may be reached at the following address:

Federal Works Agency,
St. Albans, Long Island, New York

Dave Williams is commuting between Allentown and Sandusky, Ohio. His boys are in the service. Dave has charge of manufacturing for the Trojan Powder Company, who are operating, in addition to their Plant near Allentown, a very large Government Plant near Sandusky. He tells me he spends a good bit of his time on railroad trains, which surely calls for sympathy as anyone knows who has to travel.

I noted in the Bethlehem paper last night that Baldy Smith's younger son has enlisted in the Naval Aviation Reserve. His oldest boy is a Plebe at Annapolis, where, you will recall, he entered with the highest examination mark in the whole United States; a real chip off the old block.

I am sending a letter to everyone who has made no financial contact with Lehigh this year—either Alumni Dues, Bulletin Subscription, Gift to Lehigh or Gift to Alumni Student Grants. I wish I could make every Lehigh man see the need in these times when the activities of the University are being so disrupted by the war. We cannot afford to let Lehigh down now—do something to indicate your continued interest in her welfare.

News is scarce, and I can't manufacture it, so please let me hear from you.

CLASS OF 1913

E. F. Weaver, Correspondent
c/o P. P. & L. Co.
Cedar and Buttonwood Sts., Hazleton, Pa.

Last month I told you that "Sunnie" Edwards intended asking "Bob" Watson to take over the Class Agent job and apparently he succeeded, for just a few days ago we all received copy of the plea which our fellow classman and President of the Council of Class Agents wrote Bob Watson. If you pigeon-holed it without reading it carefully, find it, read it over again, think it over seriously and get busy. No need to say anything to the fellows who didn't read it, because I'm sure 1913 does not have any such. And don't forget to notice 1913's quota, as this year same has nearly been doubled over last year's figures.

Some months ago I believe I mentioned the fact that we had heard a rumor that "Doc" Wylie was in the States, but no verification was forthcoming. We now know definitely that he is still in Turkey as evidenced by a letter he wrote to Don Wallace in late December.

"Doc" is still with Socony Vacuum Oil Co., Inc., at Istanbul. Because his letter contained a message of interest to 1913, Don graciously forwarded it to me via "Sunnie" so that I could pass on the high spots to our readers. It's high on to five years since he left the States, two and a half years since he has seen his family. "Doc" is planning a vacation. By the time this column is before you he may be on his way—now listen to this quotation—"A couple other reasons why I want to get back are that my daughter graduates from Baldwin School on June 9th. Then there is our 30th at Lehigh. I do hope there will be a semblance of a reunion though no doubt it will be a very abbreviated affair." Now there's a 13er who was able to attend our first and tenth reunions



"for all Returning Lehigh Men"

THE HOTEL BETHLEHEM

BETHLEHEM, PENNA.

JOHN F. GORDON, '37, General Manager

AMERICAN HOTELS CORPORATION, N.Y.

J. LESLIE KINCAID
President

ARMING starts with FARMING

Farming in our own American way starts with **THE MACHINE TOOLS OF AGRICULTURE**—farm machinery and tractors.

Because our farmers have had these modern "machine tools of agriculture" on their farms, and in the past have been able to get them as they needed them, the American standard of living has been raised far above that of any other nation in the world.

In every crisis our farmers have truly been the Soldiers of the Soil. Arming starts with farming because without sufficient food there can be no good builders of tanks, no ships for victory, no bombers and no fighting ships or airplanes. **HUNGER IS WAR ITSELF AND ONLY FOOD CAN MAKE A TRUCE WITH IT.**

Our farmers produce more than food for this War. They produce fibre for clothing and shelter, and oils and other products for **AMMUNITION** that are absolutely essential for the free peoples of the world.

It is to the everlasting credit of the **FARM MACHINERY DEALER** and the American farmer that early in history our farmers were sold on accepting new inventions, and new ways of doing things. Because of this more than 80% of our people have been allowed to go into industry and other useful occupations and truly helped make the American way, fundamentally, the best way of life.

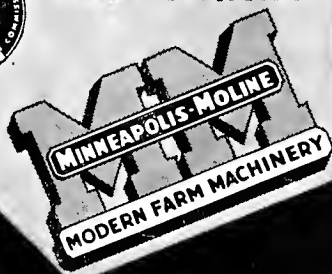
Because of their important job, our farmers feel that they will not be forgotten when the "machine tools of farm production" need replacement, but they will do all that they can with the farm **MACHINES** they now have.

Our dealers can **NOW** help our farmers by keeping their machines in good repair and by **GETTING** all their scrap into the big scrap **NOW**.

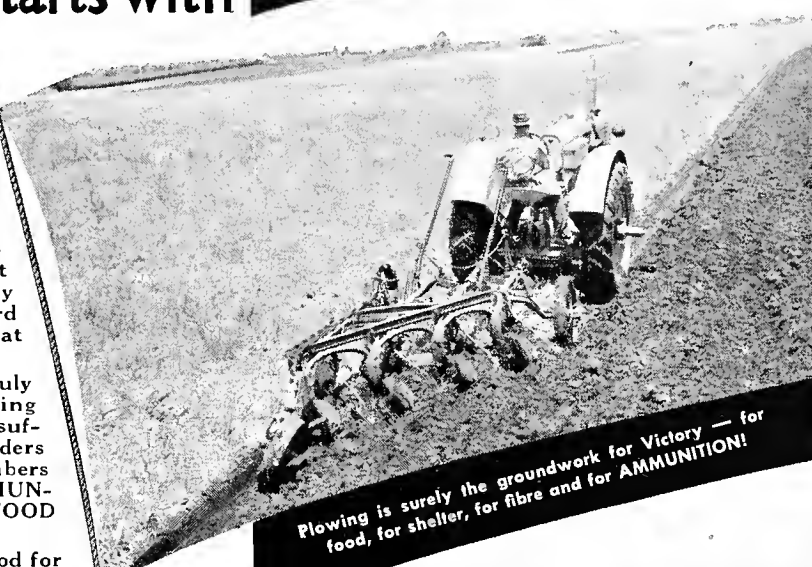
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700
MM
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NOW
IN THE ARMED
SERVICES



When a farmer plants seed and tills the soil he is dealing with the eternal forces of nature that make all life and civilization possible.



Plowing is surely the groundwork for Victory — for food, for shelter, for fibre and for **AMMUNITION!**



Our land is no more fertile than when our pilgrims first landed here, but we have learned to make it produce over 390,000,000 square meals per day.



HARVEST is the Victory of all our labors for without ample food no nation can live.

only, who hasn't yet heard last year's Lehigh-Lafayette football score and whose latest periodicals are copies of Time, Life, etc. for August of last year but who states emphatically—"Tell Sunnie he can count on me making every possible effort to be with you in June." How many more of us are doing just that? Let's take account of ourselves.

A note from the Alumni office advises that Loring T. Carpenter died on February 13, 1943. No other information was given.

The Alumni office has advised a new address for George M. Donaldson—212 N. Fulton Ave. Mt. Vernon, N. Y.

A tracer has located W. (Pat) Segnine, Jr. at USNOR—Macon, Georgia. He is a Lt. Commander.

B. H. Spencer, Mechanical Engineer with Sanderson and Porter, gives his mailing address with that company at 52 William Street, New York City. His residence address is 85 Glendale Street, Nutley, N. J.

B. S. Shafer, Instructor in the Hallstead High School, gives his address as Box 171, Hallstead, Pa. Mail should be sent to his residence at 80 Church Street, Montrose, Pa.

From the Alumni Office we learn that L. J. E. Sindell, is owner and manager of the Ohio Lamp Company, located at 117 West Court Street, Cincinnati, Ohio. He is also owner of the Navy Teacher Training Center, at 85th and Anthony Streets, Chicago, Ill. Mail should be sent to his residence at 341 Crestline Avenue, 2nd Floor Apartment, Cincinnati, Ohio.

CLASS OF 1914

J. O. Liebig, Correspondent
41 N. 5th St., Allentown, Pa.

Since we continue with our "no news is good news" status for the class of 1914 you all will content yourself without that information. However, it is timely and important that we support to the limit of our ability the appeal of Sunnie Edwards our President of the Council of Class Agents. Our own Walter Schrempel is anxious that you give to THE LEHIGH UNIVERSITY ALUMNI FUND this year generously. Our quota has been hiked up from \$261 to \$432. Your gift to the continuation of liberal education at Lehigh University is certainly a gift that must give those that make it some satisfaction, particularly in days such as we are experiencing. Please come through!

CLASS OF 1915

L. H. Geiger, Correspondent
Room 1265—11 Broadway, New York City

Here are a few more changes of addresses in which you will all be interested:

L. J. Buck, 1 Newark Avenue, Jersey City, New Jersey; H. D. Cranmer, Route 1, Sa-Har-Don Grove, Clearwater, Florida; C. H. Snyder, 414 S. 44th Street, Philadelphia, Pennsylvania; Colonel H. L. Vitzthum, Fort Monmouth, New Jersey; R. F. Wood, 43001 River Road, Washington, D. C.

You have all received the recent letter from Bo Bodine regarding 1915's participation in the Lehigh Alumni Fund. Give this your serious consideration, and let's not fail to meet our quota this year.

Your correspondent still has the same complaint to make—in fact, it is becoming a standard expression—"Where, oh where are the wandering boys tonight?" Don't you fellows ever have any news?

Of course, the first news that we want to get is that which concerns any of you fellows who are now in active service in the Armed Forces.

Then don't forget that we are one of those "get-it-twice" generations. What do you think of the idea of sending in some information about what your sons and daughters are doing in this war? Many of you fellows must have something to report along this line, so let's have it, it makes good news!

CLASS OF 1916

P. L. Horine, Correspondent
119 East 6th Ave., Roselle, N. J.

Whitey Carlson generously took time out from a busy day at the Navy Department to write me concerning A. C. Eberhard. Eberhard is now a full Commander with the Bureau of Yards and Docks, Navy Department, Washington, D. C., a location to which he was trans-

ferred after completing the new Naval Air Station at Corpus Christi, Texas. Incidentally, Whitey (initials—O. L.) is also now a full Commander with the Bureau of Yards and Docks. Reading between the lines, however, I deduce that Whitey would be happier at sea. That is where he was during World War I.

Furthermore, Commander Carlson has attended several of the Washington Lehigh Club meetings and reports seeing such worthies as our own Major (Doc) H. D. Keiser as well as Steve Burns, Babe Dawson, Buckie MacDonald, young Pat Pazzetti and others.

There are a few changes in address to report: G. J. Bucher, R. F. D. 3, Bethlehem, Pa.; P. R. Ehrigott, 1301 Main St., Bethlehem, Pa.; P. W. Sutro, Commercial Trust Bldg., S. Penn Sq., Philadelphia, Pa.

CLASS OF 1917

Wayne H. Carter, Correspondent
735 Huntington Ave., Plainfield, N. J.

Are you fellows reading Colliers these days?

Pinch-hitting for one Walter Davenport is someone who signs his articles K. C. and bud, that doesn't stand for Knights of Columbus, if I know my stuff. There's only one—that guy with the high waist pants—as Butch Breen said about his son's trouser's.

Two changes of address were received from the BULLETIN office: W. H. Wolfs—one "Bill," 523 Woodland Ave., Westfield, N. J.; John "Jack" Ayrault, Jr., Marine Barracks, Quantico, Va.

One thing is sure as fate—Jack didn't get drafted.

My temporary address, in case any of you decide to send in some information about yourself, is:

Koppers Company
Tar and Chemical Division
Flannery Building
Pittsburgh, Pennsylvania

My family is in Plainfield as yet, but will not be there very long. If any of you seventeens around Pittsburgh have any extra time on your hands call me. You'll get action.

CLASS OF 1921

LeRoy F. Christman, Correspondent
101 Endlich Ave., Mt. Penn, Reading, Pa.

In May 1921 Pete Feringa and I journeyed to Camp Meade where we took examinations for commissions in the Army Engineering Corps. I was under age so received no commission. Pete had been in France, where if I remember his figures correctly, his Co. of 250 men went over the top one day and only 7 men came back. Pete was one of the 7. He received a commission in 1921.

I was told he answered no correspondence but tried anyway and to my delight received a prompt reply showing that he really arrived, and is doing work of far more responsibility if less danger than in World War I.

His letter follows:

U. S. Engineer Office
Savannah, Georgia
February 16, 1943

Dear Roy:

"I am in receipt of your interesting and pleasant letter of February 10th, in which without actually saying so in words you reproach me for my lack of interest in my Alma Mater. My inattention to Lehigh is not due to lack of interest, but rather to the press of duties which have been constantly before me since I came back in the Army in 1921. I remember our acquaintance with great pleasure and have followed your movements as outlined in your letter with interest.

"My career has been a typical one in the Corps of Engineers. About twelve years of straight troop duty, then to the Command and General Staff School at Leavenworth, and since then River and Harbor and Military Construction duty. I am now the District Engineer of the Savannah District and, in common with the other District Engineers throughout the country, up to my ears in wartime construction. Such engineering as I recall from my college days and such engineering knowledge as I have picked up from time to time stands me in good stead.

"We pride ourselves on doing military engineering in every sense of the word, that is

fearless design structures and air fields to insure the use of local materials and the minimum of critical materials.

"It was a pleasure to hear from you and I trust that I may enjoy that pleasure again.

Sincerely yours,
P. A. Feringa"

At the other end of our 1921 scale we have news that the class baby is now in the Army. The cup inscription reads, "Awarded to William McLaurine Hall III, first son of a graduate of the class of 1921, Lehigh University." He was born on October 20, 1922 and was inducted into the Army at Akron, Ohio, January 25, 1943. On January 29th he was sent from Fort Hayes, Columbus, to Camp Haan, California, at Riverside, California, fifty miles from Los Angeles. Receiving basic training in Coast Artillery (anti-aircraft).

Bob Billinger reports that Lt. Commander Dave Maraspin, written up in last month's BULLETIN, lunched with Barthold and the Billingers in Bethlehem February 27, expecting to depart shortly for parts unknown.

Billinger and Barthold report the campus is down to 1200 men with more going out constantly and 400 Army Engineers expected in, but business as usual may disappear most any day.

CLASS OF 1922

G. F. A. Stutz, Correspondent
422 Edgemont Ave., Palmerton, Pa.

I have had several talks with Jack Killmer when I have met him on the train en route to Washington where he is continuing his work in the steel branch of the War Production Board. Jack is Assistant Chief of the Alloy Steel Section.

Jack tells me that by the time this note goes to press, "Turk" Ried will probably have a commission in the Navy.

"Spike" Mumma, for a long time with the National Tube Company at McKeesport, Pennsylvania, is now Superintendent of Smelting.

Hank Passmore is also with National Tube at their Pittsburgh Plant.

I had a nice letter dated February 25 from Prov Rodgers. Prov reports that he is in Washington and is now a Lieut. Commander in charge of the fuel section of the Army and Navy Munitions Board. This job includes coal, oil, manufactured gas and natural gas. Prov issues an open invitation to anyone who comes to Washington, to visit him at 1539 New Interior Building, telephone, Republic 7400, extension 5740.

A report from Sunnie Edwards, President of the Council of Class Agents, indicates that we are considerably behind our Alumni fund quota for the year. Approximately 60% of our quota has been contributed so far. I hope that all of you will do your best to make a sizable contribution to the fund this year.

A recent issue of Chemical and Engineering News fired a broadside of the development work of Armour & Company on the production of fatty acids. Ralph Potts had a prominent place in all of the pictures showing the "brass hats" of the Armour Development organization. You remember that Ralph told us he was the development engineer in charge of all pilot plant scale development work for Armour, when we saw him last June at the reunion.

CLASS OF 1923

I. S. Reiter, Correspondent
Route 60, Allentown, Pa.

Dear Fellow Classmates:

Your correspondent apologizes for not having any notes in the last issue of the BULLETIN but will try to make this one a "double-header." Following you will find a letter from Ken Harkins which indicates that all "twenty-three" men might have a good place to loaf in Pittsburgh:

Dear "Fats":

"This is just a note to let you know that I have read your column in the Alumni BULLETIN. With respect to our twentieth reunion you can count me in. I'll be there.

"I was interested in your notes of Bob Balderson, John K. Barrall, R. W. Barrell, Steve Bessemer, Johnny Blankenbuehler, Cliff Bradley, Al Carlisle, Charlie Derrick, Harold Farakas, Howard Fehr, Frank Ferguson, E. A.



Synthetic rubber facilitates well drilling. MANHATTAN oil-proof Rotary Hose and Molded Products, long used in all important fields. Tanker time is saved by use of synthetic rubber in Paronite G.O.P. Oil Hose.



Synthetic rubber's most vital use is in airplanes—for fuel and control hose, in molded diaphragms, and in motor packings, of which MANHATTAN is a principal supplier.

Long before Singapore



Air-operated tools deliver steadier service with longer hose life when hose is lined with G.O.P. synthetic rubber.



Paint spraying speeds delivery of combat equipment. Only synthetic rubber resists action of paint and varnish.



Trucks, buses, tanks and jeeps, all have scores of oil-proof synthetic rubber parts to keep 'em rolling.

MANHATTAN was a Veteran in the use of Synthetic Rubbers

FOR YEARS before the fall of Singapore, the use of several varieties of synthetic rubber was well-established in the manufacture of the products illustrated. These synthetic rubbers had special properties not possessed by natural rubber, such as: resistance to oils, sunlight and heat.

Because natural crude rubber was satisfactory, plentiful, and the supply seemed safe (Singapore was considered impregnable), no major (and costly) research and development programs to perfect and supply synthetic rubbers as a substitute had been initiated.

Under today's rising and tremendous program, widely publicized, vast quantities of *all-service* synthetic rubbers will be produced in months to come to replace natural crude rubber. Differences in physical characteristics, not easily recognizable to the layman, but of profound significance to the rubber technician, present highly diversified problems in the art of compounding and using these new *all-service* synthetic rubbers.

The accumulated experience of all manufacturers in the use of special-type synthetic rubbers is proving very valuable in building up the art of substituting these new synthetic types for natural rubber. The full and free interchange of information, fostered by Washington and the Industry, is speeding the results at a pace which should confirm confidence in the ability and talent of the Industry to turn out good, usable, often better, products for War and essential civilian needs.

MANHATTAN expects to further its already substantial contribution to this tremendous program of development through extensive facilities, engineering talent and a long and

comprehensive experience in the use of special-type synthetic rubbers in its Paronite—G.O.P. products.

50th YEAR OF RESEARCH

Pioneering in the developments and applications of synthetic rubbers was a natural sequence to the continuous program of research which has been inherent with MANHATTAN throughout the 50 years of its progress. To the long series of contributions to Industry, more will be added.

THROW YOUR SCRAP INTO THE SCRAP!

KEEP AHEAD WITH

William Warr, '95 A. J. Kutzleb, '13
F. H. Williams, '39 Stewart Monroe, '22



THE MANHATTAN RUBBER MANUFACTURING DIVISION

of RAYBESTOS-MANHATTAN, INC.

EXECUTIVE OFFICES

PASSAIC, NEW JERSEY

Ferris, Charlie Forstall, Hank Gentzlinger, Dave Getz, Harry Gihon, and Dick Graff. From the notes you have compiled about the boys I see that they are all getting along splendidly.

"Charlie Forstall and I met a few months ago at lunch in the Roosevelt Hotel, and I found out that he lives out in the country a couple of miles from my home. That was the first I knew he had left the eastern part of the State.

"I want to extend an invitation to all the members of the Class of '23 to make my chambers their headquarters when they get in Pittsburgh. They are located on the fifth floor of the Old Court House, Room 529, and can be easily found.

"As the result of reading your notes I expect to write a couple of letters to some of the fellows whose addresses I have lost.

"Looking forward to seeing some of the gang shortly, I am, with kindest personal regards, Very sincerely yours,

KEN HARKINS."

In addition we have the following class members to report on:

Edw. B. Hallihan, 10 High Street, Boston, Mass., is senior industrial engineer of MacDonald Bros., Inc., and is traveling too often and too fast to know where he'll be on our 20th reunion.

Erwin C. Handwerk of Star Route, Leighton, Pa., is employed by the New Jersey Zinc Co. of Penna. as assistant to general manager of technical department.

Phil Hartung, of 25 Ridgewood Terrace, Maplewood, N. J., superintendent of Kearny Generating Station (Public Service Electric & Gas Co.), has recently seen Ed. Snyder, Don Quick and Kewp Hicks.

Stewart Huston, 64 S. First Avenue, Coatesville, Pa., is employed by the Lukens Steel Co. as Secretary.

Now to 108 Buena Vista Drive, Fullerton, Calif.—the residence of L. J. Jacobson—father of two children and agent for the Self-Occidental Life Insurance Co. In answer to "How about our 20-year reunion," I received the following answer: "Ask Roosie—then God."

John W. Kreisel, 54 Maplewood Avenue, Newton, Mass., assistant credit manager for the Rust Craft Publishers Inc., Boston, informs me that Bill Korn and Charlie Zell are salesmen for the same company.

Irwin Kurtz, 1024 Sunnyside Road, Oakland, Calif., is manager of Alameda Works, Bethlehem Steel Company. He saw Miller Laughton and Steve Bessemer in Alameda sometime ago.

Frank H. Leister, Jr., North Wales, Pa., will be back for the reunion if he is not in the Army.

F. J. Lloyd, Jr., of 3210 Fernwood Place, Wilmington, Del., is superintendent of materials, Wilmington Shipyard (Dravo Corporation).

H. B. Mecaslin is owner of Electric Tool & Equipment and resides at 604 Providence Road, Towson, Md.

C. H. Miller, 739 Ormond Avenue, Drexel Hill, Pa., is employed by E. I. duPont (Grasselli Chemicals Dept.) as works technologist—Philadelphia Works. He also has a 12-year-old son.

Henry A. Rohrer, 1029 Marietta Road, Lancaster, Pa., is manager of a liquor store.

Fred Roller, Jr., is very much in favor of a 20-year reunion. "The years roll around all too quickly—so why not a good rousing 20-year reunion. Reunion is the only chance we have to see a lot of 23'ers." Fred is employed by the Publicker Commercial Alcohol Co. and lives at 4817 Regent Street, Philadelphia, Pa.

CLASS OF 1924

F. T. Bumbaugh, Correspondent
354 Sheridan Road, Winnetka, Illinois

News has been very scarce the past month. If you will please notice my address at the head of the column and remember to pass on any information to me I will be glad to put it in the column, otherwise there won't be a column.

The following are excerpts from a letter written by Lt. E. K. Thompson:

"I've been down here a year (Holabird Ordnance Depot, Baltimore, Md.) six months in the Ordnance Automotive School as an Instructor and then six months as Assistant to the Chief of Ordnance Automotive Supply Division. I've covered a wide range of operation down here from running as Assistant Mess Officer, a 1,000-man mess hall, serving as a fire officer with the 1st Provisional Co. of the Student Battalion, and now my duties cover maintenance of all the Supply Division Properties* and Mechanical Equipment.

"Most of our work we can't talk about but we handle everything connected with everything on wheels and that's a real problem when the supply lines are 10 or 15 miles long. We operate from 7 a. m. till 11:30 p. m., seven days a week and although the civilians still operate on a six-day week, we officers are here most of both shifts seven days a week, Christmas and New Years included. We've had ten officers doing the work that the table of organization calls for 26, so there's plenty room everywhere for plenty of good engineering officers who really want to work."

CLASS OF 1926

John A. Bissinger, Jr., Correspondent
907 E. Dorset St., Philadelphia, Pa.

This month we have sufficient news to meet the BULLETIN's deadline.

We have just received information that John E. Roberts, formerly manager of the Bell Telephone Company in Buffalo, has been transferred to Utica, N. Y., as manager of that office. We have no home address for him.

We have an interesting clipping from a newspaper concerning Leonard M. Fraivillig, who is Bethlehem's Assistant City Engineer. The newspaper gives quite an interesting story of Leo and heads up the article by announcing that he has been appointed as a school director on the Bethlehem Board. This adds to Leo's duties as he is already President of the Monocacy School's Parent-Teacher Association, President of the Lehigh Valley Section of the Pennsylvania Society of Professional Engineers, member of the Board of Directors of the Bethlehem Kiwanis Club, and a representative on the Central Council P. T. A. in Bethlehem. Leo has two children in the schools and it will be interesting to see how he will manage the Bethlehem schools. We wish him luck in his new honor.

Reverend A. M. Holloway is now a Chaplain in the United States Army. We have not received any mailing address but will list it in the column as soon as we do.

Joseph Gray Jackson is now Associate Metallurgist, Office of Chief of Ordnance, Room 2A-S 24, Pentagon Building, Arlington, Va. His home address is 153 Upland Terrace, Bala Cynwyd.

Reverend J. T. Travis is now Pastor at the Trinity Episcopal Church, Pottstown, New York.

Daniel F. Hayes is now a Private in the Air Force, Will Rogers Field, Oklahoma City, Okla. All mail is to be addressed to his home at 265—18th Street, Paterson, N. J.

Johnny Maxwell is now a Lieutenant in the United States Army. Johnny, drop a line and give us some information on what you are doing.

We think this gives a fair cross-section of the class and we hope that we have as much news the next time.

CLASS OF 1927

Major H. O. Nutting, Jr., Correspondent
Corps of Engrs., Aberdeen Proving Ground, Md.

Your correspondent had the real pleasure of attending an alumni meeting here on this post. It was attended by approximately 15 men, the majority from class '27 on up. It was suggested that a representative from the campus attend the next gathering.

The bi-weekly letters sent to men in the service by Leonard Schick are most interesting and it is believed more news is derived from this source than from any other.

Recently our so-called "deadwoods" were given another chance to become active or their names would be stricken from the rolls in order to curtail expenses. So far J. J. Beans' letter was returned—address unknown.

Last week I ran into Captain R. R. Kline, '30, at Butler, Pa. He's in the Corps of Engineers, Area Engineer, in charge of construction at the Butler General Hospital which, when complete will care for surgery cases of returned casualties. He's doing a splendid job.

Very shortly a letter will be issued to each and every one, the same as in years past, requesting your support for Lehigh. This year above all others real help will be needed. For old times sake, put our class on a par with others. I realize how few read this column, so it's up to you to spread the word to others.

Many changes of addresses have been reported but space must be conserved this time.

Your correspondent urgently requests a little support in the form of a postal. After ten years or more at doing this it has become discouraging, so it is strongly recommended that another correspondent add new life and carry on.

CLASS OF 1928

J. W. Helmstaedter, Correspondent
283 So. Center St., Orange, N. J.

Gene O'Callaghan just crashed through with a letter which shows that he is Assistant Sales Manager of the Painter & Maintenance Division, Devco & Reynolds Co., Inc., 44th Street and First Avenue, New York City. Gene also spends a couple of days each week in Washington and would like to see some of the gang who are stationed in that vicinity. I suggest that you try to reach him at the Statler Hotel.

Another classmate with the N. J. Bell Telephone Co. is Dan Miller, who is married, has two children and lives at 203 First Avenue, Haddon Heights, N. J. Dan is Traffic Superintendent of the Camden and Bridgeton areas and has an office at 701 Federal Street, Camden, N. J. This job, by the way, requires Dan to attend parties given by and for telephone operators ("This nice work if you can get it) and you would be amazed to hear the number of such parties he attends. Things have gone so far now that the editor of the company magazine is using Dan as the subject of a new ditty entitled "The big man who WAS there."

I haven't seen E. M. B. "Pete" Paschall in a long time so I telephoned to his home. As luck would have it, the guy picked this time to go to the barber. Well, in any case, I had a nice chat with his wife and reached the conclusion that her husband is luckier than he deserves. Pete has one child, is employed, and successfully so, by the Solar Compounds Co. of Linden, N. J., and is living at 1757 Fernwood Lane, Plainfield, N. J.

In early January, I took a walk down Broad Street in Newark and ran smack into Ralph Ellis, whose appearance hasn't changed a bit since college days. Ralph has been engaged in the business of real estate development (building houses and selling them) in Ridge-wood, N. J., but, having decided that government restrictions might leave little or no business in the future, he was in Newark on that very day to investigate a government job requiring a man of his abilities. Just to prove to his youngsters that he knows his business, Ralph recently built a play-house in the yard of his home at 324 Glenwood Road, Ridge-wood, N. J. I pause to wonder, however—does it look like something out of the cartoons he drew for the old Burr magazine? My fingers are crossed—only Hollywood or Ralph Ellis would dare!

Well, good luck, Ralph, and the same to the rest of you.

CLASS OF 1929

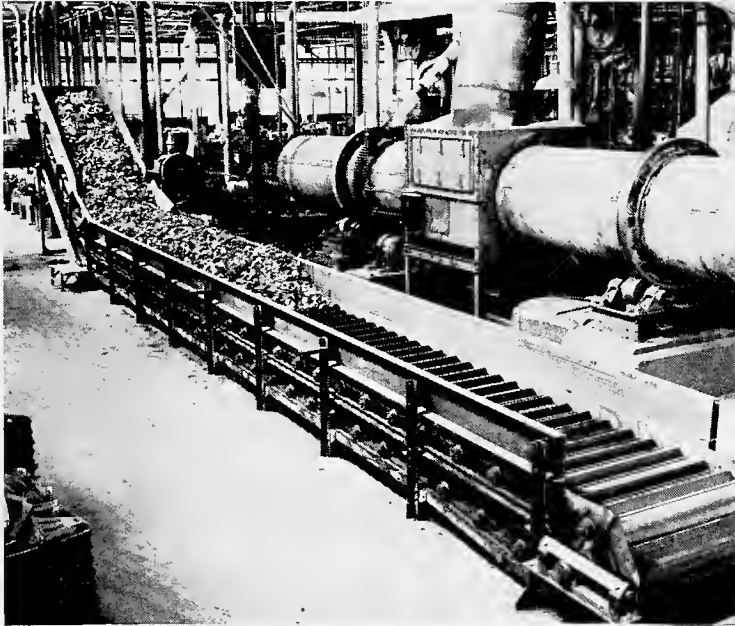
John M. Blackmar, Correspondent
P. O. Box 308, Summit, N. J.

We are fortunate in having a guest correspondent this month. Without much comment on my part, for the letter speaks for itself. Let me share the following uncensored communication which I received just after I had finished writing last month's column. The author is the Chi Psi lacrosse letterman, Thornton Karl Chamberlain, transplanted Buffalo boy. It is good to know that old Oogie weathered the storm of Pearl Harbor and is doing a real job on this ocean outpost of democracy. Here follows his account of how the war affects life in Hawaii:

Speeding to Victory on **LINK-BELT CONVEYORS**

★ ★ ★ ★ ★ ★ ★

**AMERICAN GENIUS FOR MASS PRODUCTION
IS CONQUERING THE TIME ELEMENT**



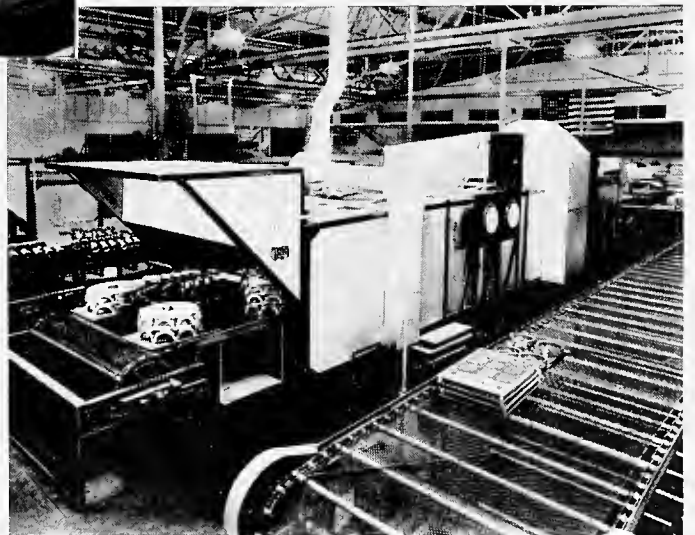
Link-Belt apron conveyor handling hot castings through continuous anneal, sorting and cleaning to shipping.



Link-Belt overhead trolley conveyor handling 155-mm shells and steel scrap. This type of conveyor has great possibilities in flexibility of arrangement, capacity and length.

● Production methods in this war have developed a new functionary: the expeditor—one who clips minutes, hours or days from production schedules by speeding the movement of materials and products into and out of plants. Within the plants, from stage to stage of production, from machine to machine, as well as outside, Link-Belt conveyors are nipping minutes, from processes or intervals; bits of time that total up to huge aggregate savings, helping to bring true the production man's dream of "Plenty, On Time, and Right."

Link-Belt Company has long specialized in the engineering and manufacturing of practically every type of mechanical conveying equipment for all industries, and our engineers are ready to show you how to use efficient handling systems to save time and manpower and speed production.



Conveyors using Link-Belt SS-4 chain with cross pipes, handling airplane motor parts to and from continuous conveyor-type oven built by The Gehrich Corporation

LINK-BELT COMPANY

Leading Manufacturer of Materials Handling and Mechanical Power Transmission Machinery
Chicago, Indianapolis, Philadelphia, Atlanta, Dallas, San Francisco, Toronto
Offices, warehouses and distributors in principal cities

Edward J. Burnell, '12

Harold S. Pierce, '04

C. A. Woerwag, '10

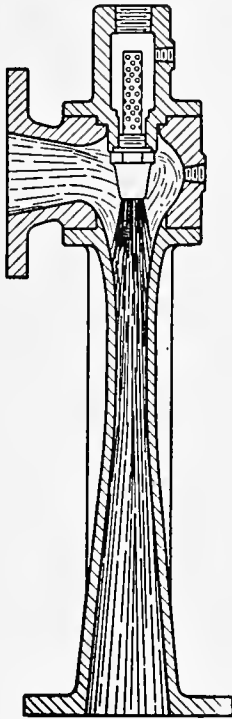
Morris B. Uhrich, '33

Thomas Linton, '34

8956-E

THROW YOUR SCRAP INTO THE FIGHT!

STEAM JET EVACTORS



AIDING NATIONAL DEFENSE

Numerous Croll-Reynolds Evactors are working overtime maintaining high vacuum in plants making explosives, synthetic rubber, airplane lubricants and a long list of other ordnance materials. They are maintaining high vacuum on engines and turbines of dozens of American ships sailing the seven seas.

While the large and special units require up to three months or more for fabrication the smaller ones are sometimes made in two weeks, or less, when the demand is urgent. These include single and multi-stage units for vacuum up to a small fraction of 1 mm. absolute, also small condensers and vacuum chilling equipment.

A recent development is a vacuum-cooled condenser for maintaining condensing temperatures down to 34° F. Inquiries will be handled as promptly as possible under the circumstances.

CROLL-REYNOLDS COMPANY

17 John St. 20 N. Wacker Drive
New York Chicago

S. W. CROLL, '10

Honolulu, Hawaii
Jan. 9, 1943

Dear John:

"It was like a voice from the past when your letter arrived because Lehigh and Mainland friends have been crowded out of my mind during these times of stress since December 7, 1941.

"If I remember correctly, William Worthington who is with Castle & Cooke here in Honolulu, mentioned that he had met someone back East who knew me and he is probably the chap you refer to in your letter. As a result of that meeting my nickname of "Oogie" was introduced into Honolulu but this time I was smart and paid no attention to it and it didn't stick like it did at Lehigh. I can still remember the annoyance I experienced in reading the newspaper accounts of football and lacrosse which included a reference to "Oogie" and his "rubber knee."

"If I were a writer I could recount for you a very interesting year at war at the Pacific front and the period leading up to the war would be just as interesting. I say this because my activities and my work have brought me in very close contact with the naval authorities at Pearl Harbor and with the military authorities on the various posts and also with the Military Governor's Office. You see, I am still in charge of transportation with the local transportation public utility and also hold the office of Transportation Director with the Office of Civilian Defense. These duties, I believe, are the only thing that has kept me out of uniform because I am a widower now. Lois died exactly one month after the war started, January 7, 1942. She had been ill for several months.

"Due to the censorship I can't give you too much detail but even with the chance that it will be repeating information that is already available to you, I will try to draw a rough picture in as few words as possible. Prior to the war there was an influx of defense workers from the mainland and labor shortages made themselves felt in civilian industries because we cannot compete with defense wages. Immediately following the war the number of defense workers from the mainland increased, every convoy bringing a capacity load because vital construction work had to be completed and damages incurred during the raid had to be repaired. Every convoy returning to the mainland from Hawaii carried evacuees—women, children, tourists and men who, for business reasons or otherwise, no longer belonged in Honolulu. This meant, with the natural influx of service personnel, that Honolulu was streamlined for the war effort. It was recently figured out that there are 150 men to every woman. Martial law, blackouts, rationing of all sorts, i.e., tires, gasoline, liquor, etc., were inevitable. There is practically no entertainment and what there is is badly crowded. It isn't a pretty picture but a necessary one and, for American citizens, taken with a minimum of grumbling and complaining.

"Golf courses have barbed wire on them, the big hotels have become barracks, parks have become evacuation centers or receiving barracks for new troops. All of these changes, especially the tire and gasoline rationing, coupled with the blackout, have trebled the demands for transportation and likewise trebled the problems in my business. Automobile traffic has been cut to practically an essential minimum and my company is expected to take care of those who do not have automobiles and all non-essential riding. Both the Army and Navy have shown their realization of the essential nature of our business and their cooperation has been excellent. They aided us in getting supplies here, including new busses, in spite of the lack of shipping space, but I really should not go into the business field because it consists of just one problem after the other except in those cases where the problems are general in the community. The labor shortage is really our biggest problem.

"I had not heard of Kirk's change of occupation so was very interested when you informed me that he was in the Navy. He may even be sent to Honolulu as his office in the Navy is one of the biggest and busiest here in the Territory. I will write him so you need not forward my letter as you so kindly suggested.

"It was very kind of you to write me and

give me all the news and I am answering your letter without being able to call similar items of interest to your attention. It really is a one-sided affair. I get my BULLETIN occasionally because the mails, like all other services, are badly overloaded and only essentials get attention. No one who has not lived through these conditions would believe many of the humorous incidents that result. To exemplify, you can dial a number on the telephone and before you are half through dialing you interrupt a romance on some other line or a hot argument. Tension many times is at the breaking point but always seems somehow to be ironed out. Practices of both a public and private nature, in business and in the home, have been put into effect which heretofore would have been unheard of or impossible to exist under and the moral, I guess, is that a free man can do anything if he puts his mind to it and that is the main reason why there is no doubt of the outcome of this war.

Yours very sincerely,

THORN CHAMBERLIN."

CLASS OF 1931

Bob Harris, Pro Tem

4730 North First St., Arlington, Va.

Since I imagined that all you '31 members are tired of seeing BULLETIN after BULLETIN go by with no mention or news of the Class in them, I'm sending this in with the hope that we can awaken some new interest, even if it's only in correcting the following bits, which happen to be the latest news I have. What 1931'ers there are in Washington see or talk to each other once in awhile and it is a good place to see whoever comes through.

I have been in the War Department since January, 1941, when I first entered active duty, and am now situated in the Pentagon Building, of which you may have read, and which is just as large as they say it is. Captain Bill Furman is there in the Office of the Chief of Ordnance, and about two months ago Major Frank Veale came through on his way to North Africa. Frank is in the Infantry and is holding the G-4 job on the Staff of a Major General.

Over in the Navy Department, on Constitution Avenue, are Senior Lieutenants Steve Gregg and Frank Gadd and civilian engineer Harry Ousey, all in the same office of Bureau of Yards and Docks. Johnny Hamp is a Virginia neighbor of mine and has been for the last few years Traffic Manager of Eastern Airline's Washington office at National Airport. John Weysser is with the War Production Board, also in Washington.

Until he left here last fall to take command of the new Jayhawk Ordnance Depot at Parsons, Kans., Alfred A. (Jo to you) Sanna, Major Ordnance, was also here in the Office Chief of Ordnance.

Here's the most reliable list I have at the moment on the other boys in the service:

Major Harry Andrews, Ordnance—Fort Lewis, Wash.

Major Russ Hoaster, Air Corps—Knollwood Field, N. C.

Major(?) Ben Davis, Infantry—Camp Roberts, Calif.

First Lieut. Phil Davis, Ordnance—Fort Belvoir, Va.

Captain Jack Macartney, Military Police—Fort Monmouth, N. J.

First Lieut. Gilbert King, Infantry—Plattsburgh Barracks, N. Y.

Major Jim Bisbee, Ordnance—Governors Island, N. Y.

Lieut. Downey Benedict, Armored Force—Camp Ritchie, Md.

Major Sam Hall, Ordnance—Panama Canal Department.

Major Frank Stutz, Ordnance—Aberdeen Proving Grounds, Md.

First Lieut. Curt Chase, Ordnance—Volunteer Ordnance Works, Chattanooga, Tenn.

While I hesitate to carry on as a self-elected correspondent, I'll be glad to continue these things if you birds will drop me a line on any of the scattered 31 gang you may see or hear from, and if you are in Washington, will phone me your present address, status, job, etc. Number is Republic 6700, Ext. 72131.

Anyhow, good luck wherever you read this, and it would seem that if 1931 got through the depression, it can certainly get through anything else they care to throw at us.



A new building of the Bell Telephone Laboratories

Reason for Confidence

MORE than ninety per cent of American scientists are engaged in beating the Germans and Japanese.

More than ninety per cent of American scientific laboratory facilities are devoted to the same task.

American scientists are working at this job six or seven days a week, long hours, with few interruptions.

They are getting somewhere, too.

Every now and then the Germans and the Japanese have an unpleasant surprise.

They find that American science has caught up with them and passed them.

It is reassuring to us and discouraging to our enemies, for American scientific

facilities are the greatest in the world. And they are functioning.

Little by little, some of the things that have been developed become public, but most of them you won't hear about until after the war.

But now, without the details, you can have faith that American research — industrial and academic combined — is rapidly giving our fighting forces an advantage.

Along with other American industry the Bell Telephone System has its own Bell Laboratories — the largest in the world — working overtime for victory.

BELL TELEPHONE SYSTEM



Your continued help in making only vital calls to war-busy centers is a real contribution to the drive for victory

CLASS OF 1933

R. L. Davis, Correspondent
341 Berkley Road, Indianapolis, Ind.

Much discussion has arisen regarding whether or not our class should hold its tenth year reunion this year. It seems to boil down to a point of individual initiative. Those who care to return to beer and study halls of Bethlehem will do so. However, it was felt as a group that we would not hold a reunion this year because of reasons that are obvious. Your correspondent fully concurs with these thoughts and feels that no reunion should be held. I am quoting below a letter which Bert Riviere received from Frank Snively on the subject of the class reunion. I am passing this letter along to you in view of the fact that it will be interesting to our class members because as you know, Frank is now a Captain in the Ordnance Section, U. S. Army, and is stationed in England.

Dear Burt:

"For a long time I've been expecting to write to tell you that my chances of being back in Bethlehem with you for our 10th Reunion are pretty slim. They tell there *will* be a reunion in June and they further impress upon us the fact that only those planned early and "plugged" all year are a success. Sorry I'm so far away, so, Burt, it looks like another job for you. I hope you can find some help from our honorable vice-president and alumni office. Wish I could be back there with you, but you can bet your last wooden nickel that when I do return, my first thoughts are not going to be a class reunion. For 237 days I've been away and everyday my love and devotion to my wife and daughter has increased.

"Because of the great number of our fellows in the service before June and because of the pressure of work upon those left behind, I imagine the attendance will be cut, but I'm hoping the reunion will be a big success. Make it a good one and we'll be back to join into the next one. You can count on that!

"For several months I've been bumping into one of your buddies, Howard Aufderheide, who

works in this same building—he's Post Adjutant. I know his father-in Armstrong's business and he's also a friend of my wife's family.

"In almost eight months I've learned to like England a lot (except for its weather) but, oh man! it will certainly be good to see the Statue of Liberty and the skyline of New York when victory is finally won.

"Best regards to you and remember me to the gang when you see them."

Yours sincerely,

Frank

Sometime ago, Bert Riviere wrote us an interesting letter which we were unable to get in the last issue of the BULLETIN. I am passing this letter along to you at this time principally because it again takes up the matter of our '43 reunion.

"Just a short note to tell you how good it was to read once again your column in the January issue of the BULLETIN. Good work!

"For some time since Pearl Harbor many of the '33 Pittsburgh men have been discussing the fact that this year is our tenth and whether we should go through with any sort of plans. Even before the gas rationing and since so many of the men are in the service, it is, I believe, the general consensus of opinion that we hold things off until the first June after the war is over, even if that year, we do not have any regular set time for get-togethers. While I think that in these times, most '33 men will probably agree on this score, I think it would be timely if you would write something in your next column asking men to write soon their various opinions. What do you think? Have you had any letters on this subject?

"Fritz Keck—latest news has it—is a Captain and stationed in or about Biloxi, Miss. Seldom see Johnny McElwain, but he is a first lieutenant in the Pittsburgh Ordnance Department where he works with Major John Kight, '34, and Reed Holt, '34, working in civilian capacity. Saw Herm Moorhead the other day and he looks a bit weighty and prosperous; he is still with Carnegie-Illinois Steel.

"Drop me the news, Bob. Good luck and best wishes to you."

Any comments that you may have regarding the feasibility or possibility of a class reunion this year will be greatly appreciated and will receive careful consideration by your correspondent.

CLASS OF 1934

R. F. Herrick, Correspondent
Lchigh Alumni Office, Bethlehem, Pa.

One certain way for Ye Correspondente to get news is to go around making flat statements. You will recall that in a recent issue I mentioned the "one major in the class." The upshot of it was that '34 seemed to blossom out with more majors per square inch within the next month than had ever been recorded in the history of man. Among some of these is Ed Heller, whom I mentioned in February as a captain. Ed's department is more accurately stated as the Department of Research and Development of the Quartermaster General's Office in Washington.

Then comes along this swell letter from Ed Hower:

"Last issue related that '34 had one major in the service. Correction—we have at least two: John Kight was promoted to the rank of major in the Pittsburgh District Ordnance Office several months ago.

"Only other news I have is that John McConnell is in the metallurgical department at Carnegie-Illinois Irwin Works. Haven't seen Mac for some time but he was fine when I last saw him. Best regards."

We certainly extend congratulations to Johnny Kight on this well deserved promotion, as we know what a grand job he has been doing in the Pittsburgh Ordnance District. And it's equally good news to hear of someone who has seen the McConnell in the flesh since he has apparently been dividing his time between the McConnell estate in a Pittsburgh suburb and his test tubes (or whatever a metallurgist hides behind).

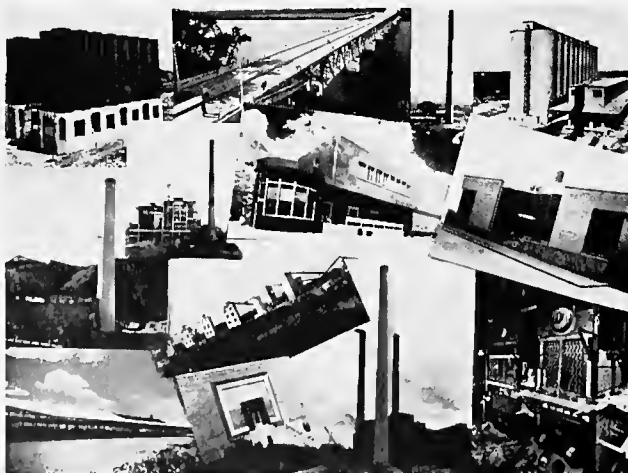


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R. H. Wagoner, '36

No sooner does Ed Hower's note reach here than the local tagblatt breaks out with a picture of George Konolige, who has been promoted to major in the U. S. Army Force at MacDill Field, Florida, for which even more congratulations, George.

There are probably a lot of other majors hiding in the bushes and I guess the next thing to race for is a colonel's commission.

From Berny Frick in Memphis, Tenn., comes a note straightening us out as far as his official status is concerned with the Naval Reserve and we can now report that his address is Lieutenant (j.g.) Bernard L. Frick, U.S.N.R., 1279 Lamar Avenue, Memphis, Tenn. Berny explains that he was commissioned in the Civil Engineer Corps of the Reserve on August 17, 1942, and is now located at the U. S. Naval Air Technical Training Center in Memphis as assistant to the officer in charge of construction. Then Berny lets us in on the good tidings that on October 10 he was married to Miss Theresa Wagman of Dallastown, Pa., who is a sister of Francis V. Wagman, Arts, '35, which is really keeping things in the family.

I forgot to tell you last month that if you want to get in touch with Walt Plumb he should be addressed at the U. S. A. Ordnance Department, Gage Sub Office, 238 E. Wyoming Avenue, Philadelphia. Lieut. Frank Geiger is laboring under this heavy title, "Assistant Post Engineer, Repairs and Utilities Branch, North Atlantic Division, Corps of Engineers, Mitchel Field, L. I., N. Y."

Julio Zumeta, who falls under the category of "long time no see," has now been tracked down by the Post Office Department at 1620 W. 17th Street, Oklahoma City, Okla.

Cel Peck is now receiving his mail at 763 Beacon Lane in Merion, Pa., and Gene Wildman at 108 N. Second Street in Lewisburg, Pa.

Any of you lads located near the Sparrows Point plant of the Bethlehem Steel Corporation will be interested in knowing that Ed Howells is temporarily assigned to that point and is living there with wife and baby.

Just space to say that the old class has been responding nicely so far to Tex Eichelberger's campaign for gifts to Lehigh this year and some of the boys have sent in really sizable checks, but no matter if you can't quite follow their example, be sure that the list published this July doesn't have your name missing among those who have given *something* to the fund. There were 40 of us who kicked in last year and there have to be at least 68 this year if Tex is to meet his quota.

CLASS OF 1935

Dr. Robert "Buck" Buchanan, Correspondent Presbyterian Hospital, New York City

Due to circumstances beyond my control, I was unable to write a column for you '35 men last month and I don't suppose this column will take any Pulitzer prize either, but when you get three to four hours sleep per night you don't feel much like a Lowell Thomas when it comes around to writing the column.

Probably Carl Collander rates as the happiest man of the spring so far, for Ann Olivia arrived on January 6. Many congratulations to you and Mrs. Carl C., and if you don't already know it, Carl, daughters can steal your heart without even trying and they certainly are a lot of fun.

Incidentally, Carl is doing the class a real favor by taking over class agent duties since Bud Loux was taken into the Army. (More about Bud later.) You remember that Carl is the general purchasing agent for the Jacobs Aircraft Engine Company in Pottstown and it's a good thing that the old holder of offices on the campus had a lot of training for his present schedule. It's just like him to assume the responsibilities of parenthood, take a job that keeps him busy too much of the time, and then agree to be class agent, and do a good job of it, too.

It seems as if Bud Loux has been going into the Army for the last year but they finally caught up with him the end of February and he wrote from Camp Dix to say: "I'm getting used to 5:30 rising every day and all in all can't say I dislike this life. Helped to unload a refrigerator car of lettuce this morning and got a good workout. Met Bob Reifsnnyder, '37, during the classification interview and he is now either a corporal or a sergeant. I forgot to count the number of chevrons on his sleeve. We've had it fairly easy since 11:30 chow—



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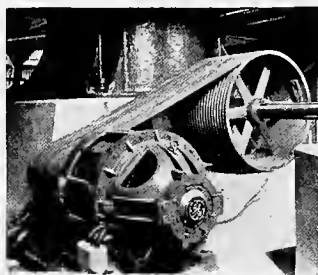
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have seen two good pictures, including 'Random Harvest,' for they get the good ones early and charge us only 15 cents. Smokes are 12 cents, candy 3 cents and they have nickel beers but not as good as old Supreme." Bud's next card came from Spartanburg, S. C., from where he wrote: "When we entrained yesterday I thought after leaving the troop train that a C. O. was a captain of infantry but here we are at Camp Croft. We have been kept plenty busy and yesterday marched three miles in a soaking rain so got nice and wet from the knees down. I am about the oldest man here in the Third Platoon and am acting squad leader of my second squad. The other three are half an inch taller or shorter and were still in school when inducted. Pretty rough country here—hilly and muddy when it rains, but I guess with more grass in spring it will be a pretty sight."

Jack Kress, who wears a major's leaves, dropped a line from Camp Lee, Virginia, to say: "I am now a major in the Quartermaster Corps, having been attached from the infantry for the duration, and I'm at present executive officer, second in command of the Tenth Quartermaster Training Regiment here at Camp Lee. I wasn't too keen about being shipped to the Quartermaster Corps at first but find that they need real soldiers here and my infantry training has been a great help in instructing both trainees and junior officers of the Quartermaster Corps in basic infantry. I have my wife and family here with me, the family consisting of twins, a boy and girl, who will be three years old on the 31st of June."

Whether these Betas have the edge on majors' commissions I don't know, but Jack Heinley also wears the leaves and is located at Camp Roberts, California. Jack says: "On February 1 of this year I was promoted to the grade of major. That is about the only news that I have for you. I read with interest the

remarks about Major General Alexander M. Patch, '12. Incidentally, in my humble opinion he is one of the most able leaders we have had in the service. I served with him a few years ago when he was a major." We certainly wish the two Jacks all the luck in the world, which they richly deserve.

It's a far cry from the days when Dick Wilson used to alcoholize the gold fish at the A K Pi house, for he is now electrifying the Navy Department for the Westinghouse Company in Washington, D. C. Dick, who knows more about the inside of boiler rooms than most of us do about Joe Kinney's, certainly has a good spot for himself. Another lad who is in the electrical business is Dave Stemler, but he has a leave of absence from the Pennsylvania Power and Light Company in Hazleton, where he was an electrical distribution engineer, and now has the rank of second lieutenant in the Army with the electronics training group. At the present time Dave is stationed at Fort Monmouth in Red Bank, N. J.

Aub Sine, as you know, is back in the old home town of Trenton, N. J., but up to his ears in work for the Kingston Trap Rock Company in expediting delivery of concrete and crushed stone as well as doing advisory work on the construction of airfield runways with bituminous concrete. The Trenton gang tells me that Aub is a real Lehigh rooter and can be found at any meeting of the Lehigh club there.

Looking over the current Army picture I find we have one lieutenant colonel, three majors, nine captains and 43 officers in the Army and Navy plus non-commissioned and enlisted men who are giving an excellent account of themselves. If Major Green were alive I'm sure he'd be proud of our record (which I know is incomplete). The one thing men in the service look for more than anything else is a letter from home, so drop a line to one of our classmates when you have a free moment and

it will mean a great deal to him, although it requires little effort on your part. Come on, gang, let's show that old class spirit and get behind those who are doing their part overseas.

CLASS OF 1936

R. M. Eichner, Correspondent
R. D. No. 1, Ballston Lake, N. Y.

In place of honor this month is the first contribution ever sent to this correspondent voluntarily. Here it is and I hope others will follow this encouraging precedent:

"Dear Bob:

"I noticed in the February BULLETIN that you were interested in getting information on Swede Hanson. I was up in Wilmington during January and at that time he was still with Hercules Powder Company, but had left the Brunswick Plant. If my memory serves me correctly he is now at Radford Ordnance Plant in Radford, Va.

"A word about myself. I have been married for two years now and have a daughter ten months old. I am now in charge of Manufacturing at the Ordnance Plant at Edgewood Arsenal. They gave me my Gold Leaves on January 1st.

Best regards,
Chas. W. Bowden, Jr.
Major, Ord. Dept.
Edgewood Arsenal, Md."

Body's rank as Major is certainly worthy of comment as a list received from the Alumni office in January listed him as a Private. As far as I know, he has set the record for rapid advancement. We do, however, have other majors among our classmates. In proof of this statement is the following letter from one of them.

"Dear Bob:

"Cora (Mrs. Hoppock to those who do not know that I took the vows a little over two

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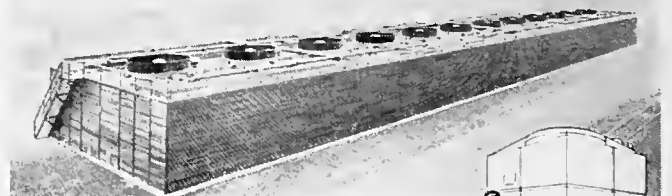
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years ago) just called me to tell me of the arrival of your special delivery letter pleading for some information for the '36 class columns, so I sat down immediately to get this off to you in today's mail.

"I have been reading the news of our classmates and other Lehigh men whom I knew with great interest and have hesitated to write myself because, compared to their experiences, mine in the war has been very prosaic.

"To dispose of myself quickly, I will report that after being married on December 14, 1940, I was called to active duty twelve days later; spent the first four months of 1941 in the Army Industrial College and since the end of April 1941 have been on duty on the Technical Staff in the Office, Chief of Ordnance in Washington, D. C. Being close to the source of power in the Ordnance Department, has been very fortunate for me in that two promotions have brought me to the rank of Major.

"The one big personal event in the two year period was the birth of Susan Rae who will be one year old by the time this reaches the public.

"I have had reports of the many stirring adventures of some of our classmates. Most important is that of Captain Jim Mayshark who was leading a company of tanks in Africa, and according to newspaper reports, was ambushed by German 88mm guns. Jim got out with a badly smashed leg and is now in England recovering. A lengthy newspaper story reported him in his usual high spirits and said that he has a baby girl back here whom he has not seen.

"Bud Austin is now P. F. C. Austin. I believe still at Fort Bragg.

"Bill Hutchinson left his desk job a good many months ago and is now presumably in the field with Chemical Warfare troops.

"I have seen Moose Engstrom occasionally in the halls of this mammoth Pentagon Building

and I believe the last time I saw him he had Major's leaves on.

"Clark Bartlett is in charge of the Planning Branch at Aberdeen Proving Ground.

"Major Cooper is also at Aberdeen on a rather secret assignment.

"About a year ago I saw Earl Bennett in a Marine officer's uniform at the Army-Navy Country Club. No idea where he is now.

"It was two years ago that I had a long talk with Frank Mallalieu who already established himself as a consulting engineer in electronics work.

"Earl Gerlach was drafted, then married, and then completed Officers' Training School with the Signal Corps many months ago.

"John Dietz is still with Western Electric and last I heard had a fine new promotion.

"Looking back over this letter, I see that it is a little vague in spots and some of the information has probably changed in these days of rapid movement.

"I will close with an invitation to anyone who gets to Washington to please call me. Both my home telephone and my War Department extension are listed in the directories. We have a little house in the outskirts of Washington with no spare bedroom, but a very comfortable attic with two cots. One long cot and one short, so that we can accommodate two classmates if one of them is not over five feet seven inches or one classmate and wife.

Sincerely yours,

DAVE HOPPOCK

Office of the Chief of Ordnance
Washington, D. C."

The best way to stimulate the flow of news to this column is to enlarge our circle of subscribers. Do your part by showing your copy of the BULLETIN to other '36 men you may meet.

CLASS OF 1937

Leonard H. Schick, Correspondent,
Alumni Office, Bethlehem, Pa.

The millennium has arrived. For once I won't have to search the change of address file to find enough news to fill this space. There is plenty of it this month, so draw your chairs close and let's proceed.



John R. Howells, '64

"His father was too modest"

There is still another way that we men
of Lehigh can serve the war effort—

Buy War Bonds and Stamps

I wonder how many of you will recognize the future alumnus whose picture is published herewith as the son of Frank Howells, who starred on the gridiron and later captained one of the basketball teams. Already registered with the class of 1964, the young athlete's full name is John Richard Howells, and the picture was sent to us by a relative, because Frank is too modest. (In fact I don't believe Frank knows we have the picture). One look at this husky and you know who is the boss of the Howells family.

However, young Jabn will not be alone when he enters Lehigh at some distant date because a letter from Major Bill Patterson informs us that he is now the proud father of a son born March 3. Both mother and child are in good health. (Let's see what your boy looks like, Bill).

And now let's turn to the war front for awhile and see what some of our classmates are

doing. Latest to break into the headlines is Art Curren, a Lieutenant in the Army Air Corps, who recently piloted a flying fortress over Rabaul, and wrecked havoc with that Japanese held base. During the attack Art's plane came in so low that his co-pilot insists he could read the signs in the drugstore windows. Anyway, Art was commended for his daring by his superior officer, but his pride knew no bounds a few days later when he was informed that his wife had given birth to a husky son. (What is this anyway?).

But here's one fellow who did not become a father in the last few months. He is Major Herb Tillapaugh, who is now commanding officer at the Spartan Air Field, in Tulsa, Okla. Herb, whose secret ambition as an undergraduate was to enter the Marines, seems to have discarded his desire, and is now making good in a big way with the Army. Shortly after we re-

ceived our diplomas (way back in the good old days) Herb entered the Air Corps, and later was sent to Culver Military Academy as an instructor. In 1939 he returned to civilian life but was recalled to active duty in September, 1940. He was later transferred to Spartan Field as a ground school instructor and in April, 1942 became a Captain. His latest promotion to the rank of Major was announced last month.

Word comes that Captain Harry Archer, who edited the Brown and White in his undergraduate days, is now Assistant Military Attache to Canada. Harry who has seen a great deal of this country since he was activated, can be reached at the American Legation, Ottawa, Ontario, Canada.

A letter from Tom Reider reveals that he is an Ensign and is stationed at the Naval Air Station at Sanford, Fla. Tom writes that he and Adele Newhard, of Allentown, to whom he was engaged, got tired of waiting for the Navy to give him a leave, so Miss Newhard came to Florida and on January 29 she became Mrs. Thomas Reider. Tom, who is now in the final stages of training in patrol bombers, expects to be put on active duty within a few weeks.

Jack Gordon, remember him as resident manager of the Hotel Bethlehem last spring when we held our fifth reunion, has been promoted, and is now general manager of the hotel. Incidentally, Jack is also a proud father of a little girl who I believe is several months old now. Everytime Jack and I see each other we compare notes on our respective offspring. (Yes sir there's nothing like being a family man).

I am sure all of you remember Mark Wolcott, the little bundle of dynamite who used to hustle so on the gridiron and on the wrestling mat. Well, Mark, who was commissioned a Lieutenant (j. g.) last year, has been transferred to the Marine Corps, and is now on active duty somewhere in the South Pacific where he is stationed with the Medical Corps. I may be pulling a Winchell, but I am sure Mark won't mind when I tell you that a visit from the stork is expected sometime in May. Mrs. Wolcott is residing with Mark's parents until he can rejoin her.

As a result of a tracer sent out recently by the Alumni Office, we learn that Dave Gordon is residing at 1380 North Avenue, Elizabeth, N.J., but that his business address is "F.B.I., United States Department of Justice, Criminal Investigations, Washington, D. C." That certainly sounds ominous, but I'll bet Dave's job keeps him plenty busy these days now that Congressman Dies is on the rampage again.

I know I have exceeded the allotted six hundred words, but it isn't often that I have so much to write about. Now, that the ball has started rolling, I must depend upon you other classmates to keep it going. Stamps cost only three cents, and I'll always be glad to hear from you. And so until next month, I bid you farewell.

CLASS OF 1938

Robert V. Henning, Correspondent
Belmont Smelting & Refining Works, Inc.
330 Belmont Avenue, Brooklyn, N. Y.

In last month's issue, I mentioned that Bill Duke wrote from Kansas expecting to go overseas. It turned out that his first stop on his way overseas is the Brooklyn Army Base where he is temporarily stationed. Bill has heard from Palmer Murphy, now in New Orleans, who also expects to come to Brooklyn. This must be quite a place!

Congratulations to Capt. Bob Titlow at Fort Benning on the birth of an heir, Bob Jr., on October 19.

Herman Ahrenholtz is a mining engineer at the New Jersey Zinc Co., Bertha Mineral Division, Austinville, Va.; Bill Gottlieb is one of those O. P. A. Economists at the O. P. A. Census Bldg., Washington, D. C.; Lt. Carstairs Haas, APO 7, Camp San Luis Obispo, Calif.; Ensign Charles Harry Hoffman with the U. S. Naval Reserve, State Hospital, Allentown, Pa.; Lt. R. E. Lee, APO 640, c/o Postmaster, New York, N.Y.; Lt. D. Q. Marshall, Fort Benning, Ga.; Lt. Carl Martinson, Aberdeen Proving Ground, Md.; Lt. N. J. Palladino, write him care of his home, 911 N. 4th St., Allentown, Pa.; Lt. Alan W. Smith, Camp Santa Anita, Arcadia, Calif.

Whenever any of you fellows have time, drop me a line so that we can keep this column "up to the minute" on the doings of the class.

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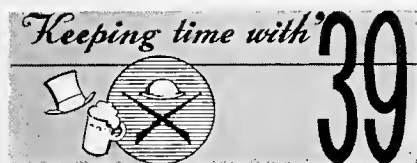
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CLASS OF 1939

Henry T. Shick Heckman, Correspondent
Bentleyville Road, Chagrin Falls, Ohio



Submarine Chaser Trng. Center,
Miami, Florida

Today marks the wind-up of the base course here at SCTC. At the moment we are "standing by" awaiting assignments to specialized courses which will take up the next week or two. In retrospect, the two months stay in Miami has not been the picnic some of you might have imagined. Though the climate is great and the opportunities for "playing" many and varied, one can take little advantage of them when on duty 7 days per week. As a matter of record, the three beach excursions we managed to sandwich in weren't even enough to get a good tan.

SCTC seems to be a crossroads for the young naval officers. Although to date we haven't sighted any '39ers but we have seen Joe Hopkins, '38, and Dick Rassmussen, '41.

WHERE IS '39?

The boxscore on the mailbag this month hits a new all-time low. Only one letter and that from a father of '39. If your correspondent can continue to bat out a column while being shifted from place to place by the Navy, one would expect that some of the other class members would be able to find time to drop us a line say, once a year.

A letter received from the father of A. W. Hendricks advises that Weldon has been in England since April 1942. A technician for International Business Machines, he was originally sent to London, now is elsewhere in England. As a result of news published in this column, he hopes to look up Grant Stetson and Jack Heller. By the bye, Hendrick's family has moved from Sellersville, Pa. to 1270 Lakeland Ave., Lakewood, Ohio.

AFTER ALL THESE MONTHS

In catching up with some back correspondence recently, we came across a letter dated November on back of which were some class notes which never found their way into print. Said notes were collected during the bedlam that was Lafayette weekend, hence are somewhat hazy. Nonetheless, the scribbling recalls to mind the fact we ran into Ed Manning. On June 6, 1942 Ed married Barbara Ann Thonet of Irvington, N. J. The couple is living at 640 Albert Place, Ridgewood, N. J. where Ed works as a test engineer for the Eclipse Aviation Co.

Some weekend we came along Sam McCaulley in a neat blue uniform bearing one and a half stripes (a Navy (j.g.) Lieutenant equivalent to an Army 1st Lieutenant). Sam received his commission in June 1940 aboard the U. S. S. Prairie State-Naval trng. ship permanently anchored in the Hudson River at 135th Street. He is now assigned to a Navy repair ship and can be reached at Room 2851, Navy Department, Philadelphia, Pa. Our notes are a bit indefinite on this Philly angle but it's worth a try.

WITH THE ARMED FORCES

With the flying doughboys are Corp. R. H. Clark, Johnson Field, Goldsboro, N. C.; Lt. D. C. Oskin, APO 520, New York City; Lt. J. A. Dellen, Monroe, La.

Among the ground forces are: Lt. A. S. Goldstein, 11 Linnalan St., Cambridge, Mass.; Lt. W. G. Hestand, Liaison Officer, Seattle Port of Embarkation, Seattle, Wash.; Lt. C. A. Weed, Camp Forrest, Tenn. Very meagre dope indicates that Sgt. R. W. Blanchard is somewhere overseas.

THE BLUE AND GOLD

On his way to augment the Lehigh forces afloat is Harry LaRose. Harry reported to Harvard University beginning of February for basic training prior to being commissioned an Ensign, USNR. Also with the World's Greatest Navy are: Ensign F. C. Durant, III, 1901 Walnut St., Philadelphia, Pa.; Ensign Richard Bacon, Bureau of Ordn., Washington, D.C.; Ensign Wilson C. Hantline, also Bureau of Ordnance.

This may be the last column written ashore. However, we'll bend every effort to keep the columns coming regardless where the fortunes of war may carry us. A slight assist in the form of letters will be much appreciated. Address them to Chagrin Falls and they'll always be forwarded to our latest address. Skool.

CLASS OF 1940

Ralph E. Martin, Pinch-Hitting for Al Cox
for the duration
393 N. Main St., Wallingford, Conn.

Since Al Cox has been and will be moving all over the world with the Army, we thought that someone who would be settled at one address should carry on for awhile. Unless things change I expect to be at the above address for a long time and would be glad to edit any news you fellows will send me.

I took in the Yale-Lehigh game but failed to see any of the '40's, but did see a good Lehigh team which scared Yale plenty. The Lehigh band of sixty men looked as good as usual.

At the Southern New England Alumni dinner I saw James Goodwin, Al Bodine and Ives Schey. Al is now a 2nd Lt. in the Ordnance stationed at Springfield, Mass. Ives Schey who completed his college at Newark College of Engineering, is now married and working for G.E. at Bridgeport.

Bob Carter writes from Lafayette, Ind. that he is training men for the new Aluminum Company plant at Phoenix, Ariz. Bob expects to leave for Phoenix about April 1. While at Pittsburgh he met Johnnie Gregg who was returning from West Virginia where he had been investigating new plant sites for DuPont. He saw Bill Carson and family who were on vacation in Pittsburgh. Bill is with the Hercules in Brunswick, Ga. Bill reports everything is ideal down there.

That's all the news for now. Drop me a line and give me all the news about the "Roaring '40's" you know.

CLASS OF 1941

Donald R. Schoen, Correspondent
853 Park Avenue, Baltimore, Md.

PERSONAL NOTE

Please observe the change in address of your correspondent. It's not permanent, but for a while at least, I'll be sharing an apartment here with a couple of fellows also making Baltimore their temporary residence.

OFFICIAL BUSINESS

From the class point of view a letter from our secretary-treasurer might be classed official business, and as such deserves note here. Add the fact that it comes from "somewhere in Australia" and that it is chock full of interest, and do I need any further excuse for including parts of it here? Take it away Gus Riemondy:

"Just received a letter from you dated October 6th, marked, "lost in transit." It sure was good to hear from you—better late than never.

"Al Lee wrote me a letter telling me all about his escapade back in April '41. Ours was probably the only case in Lehigh's existence when both the president and the secretary-treasurer were married men. But then our class was unusual in many other respects.

"I had a letter from Mac (Leonard McKinley) the other day; he is now stationed at Fort Monroe, N. C. Judging from his letter he is anxious to see some action.

"Imagine my surprise this morning when I walked into one of the Depot Warehouses and bumped into Lt. Manning, '41. He is the only classmate I have met overseas, with the exception of Johnny Atwood who used to be in the group. Johnny is at present a Captain and C.O. of a supply squadron in another Air Depot Group.

"As for myself I am quite well and enjoying this tropical haven. The past year has gone by quickly because we've been kept so darn busy. Believe you me, I'm glad of that fact. It sure helps to keep your mind off of the more intimate things in life, like that son of mine I've never seen. He is almost nine months old now."

How about dropping Gus a line, fellows? Address Captain A. A. Riemondy, 0-412552, APO 922, c/o PM, San Francisco, Calif.

MORE ALIVE

John Stives writes from APO 28, Camp Livingston, La.: I joined the division in Feb., '42 after spending my first six months of ser-

vice at Fort Monmouth. I took practically all the courses they had to offer and finally after many changes of orders got shipped off to La. just when Louise expected our baby. "Jeff"—John Jeffrey Stives—was born March 2, 1942, at Trenton, N. J., and I didn't see him until a month later.

Cloncy Reber is at a USNR Midshipman's school at Notre Dame.

CLASS OF 1942

Frank S. McKenna, Correspondent
c/o H. C. O'Brien, Masonic Apts., Latrobe, Pa.

I was fortunate to be able to make my fourteenth trip back to Lehigh over I. F. Ball weekend and saw Billy's well balanced wrestling team wind up their first undefeated season since 1935. The class of '42 was well represented at the Ball and at the Chor. Lt. "Slim" Moyer, USMC, came up from Norfolk for a breath of fresh air and claims that the Marines are Tops. "Furdy" Schumacher was still in "civies" but will go into the Army as a Lt. when he finishes Medical School at the University of Pennsylvania. Ensigns Phil Hornbrook and "Howie" Williams were also there.

I've spent a couple of weekends with Lt. "Buck" Middleton, AAF., and his wife in New York. "Buck" is waiting for his ship to come in and isn't buying any season tickets for events in the U. S. A. Lt. Bob Clark thawed out some ink and dropped me a line from Alaska. He claims that Alaska is much better than it's cracked up to be. According to "Clark" the U. S. has the situation well in hand and will be giving our yellow skinned friends a hot time before long.

Ensign R. F. Shimer who left Lehigh in his senior year and got his wings in August writes from an advance base in Cuba that although the living conditions are far from the life at Lehigh that "our boys are a swell lot. . . There is plenty of pepper and spirit too. You can be damn tootin' that I like the Navy. It's tops!"

I ran into Ensign Don Layton here this morning. He's in Naval Ordnance work too and is taking his indoctrinal training with me at Fort Schuyler in Bronx, N. Y. I had intended to meet Lt. John Quincy this weekend, but I just found out that he's been shipped overseas too.

It would be a great help to me in writing this monthly letter if you fellows would drop me a letter or postcard about what you and your classmates are up to. In that way we can get a more comprehensive coverage in the BULLETIN.

Best of luck until the next issue.

CLASS OF 1943

Samuel J. Davy, Correspondent
Sigma Phi, 506 Delaware Avenue,
Bethlehem, Pa.

This first column of news and information of new born alumni must by the divided nature of the class be a short one.

Mase Pearsall reports having a jam session with beloved record enthusiasts almost daily after working hours in Naugatuck, Conn., where he is employed in the development of synthetic rubber for the Naugatuck Chemical Company. Mase was ever ready for such sessions at Lehigh as time would allow, and his report does not surprise us.

Lynn Bartlett, Walt Edwards, and Joe Kemmer, all arts journalism men who were drafted less than two weeks after graduation, report that life in the service has its compensations and that on the whole it is all right. Bartlett, former editor of the B & W, writes often from his Miami hotel, gloating over it all. Edwards is in the Marines at Quantico.

Bob Beckwith, part-time musician and philosopher of the class, is making great strides toward a captaincy of industry with the Standard Oil Company in its study of the process development of petroleum, rubber, and allied stuffs.

Dick Hardenbergh, who left the class a year ago for a fling at F & M, will report soon for induction into the Navy. He left F & M at the mid-year when call was imminent after establishing a fine record there.

Locations of classmates in industry insofar as have been reported include:

M. L. Blanket is with the Samuel Webster firm of accountants in New York City; A. H.

Bolyn is with the department of labor in Philadelphia; and R. F. Burroughs is with the Armstrong Cork company in Lancaster, Pa.

Continuing their studies in varying forms are: Pres. Parr and Bill Walker, both doing graduate work in chemical engineering at Lehigh; Mike Buchman, who is studying medicine at Johns Hopkins; Arthur Mann, who is studying medicine at Penn.; and Dick Eberts, who is working on the National Defense Research Council Project at Columbia University.

Men in the service include Steve Hart, who is in the Marine reserve, and Art White, who is in the Navy. Their addresses are transitional now, so there is no point in listing them here.

On the part of those of the class who are still to graduate, suffice it to say that Mr. Kinney's little shop is still in business, the Maennerchor is in no danger of closing, and the combined clientele is increasing commendably. Bethlehem is unchanged, save for a bit more smoke, perhaps.

BIRTHS

CLASS OF 1920

To Mr. and Mrs. Edward L. Forstall, a son, Laurence Lafore, November 8.

CLASS OF 1937

To Lt. and Mrs. Arthur T. Curren, a son, Arthur Thomas, Jr., February 1.

To Mr. and Mrs. Frank M. Howells, a son, John Richard, September 3.

To Major and Mrs. William P. Patterson, a son, John, March 3.

CLASS OF 1941

To Lieutenant and Mrs. John H. Stives, a son, John Jeffrey, March 2.

MARRIAGES

CLASS OF 1934

Bernard L. Frick married Miss Theresa Wagman, October 10.

CLASS OF 1937

Ensign Thomas F. Reider married Miss Adele Newhard, January 29.

Lieutenant (J. g.) J. Davis Scott married Miss Rose Devlin, March 8, in the Holy Infancy Church, Bethlehem, Pa.

CLASS OF 1942

Charles J. Little II married Miss Lois M. Buschaper, February 5, in the First Presbyterian Church, Sarasota, Florida.

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IN MEMORIAM

Clarence E. Raynor, '88

Clarence E. Raynor, retired civil engineer formerly associated with the United States Bureau of Public Roads, died January 16 after a short illness. He was 78 years of age.

Mr. Raynor received his C.E. degree in 1888 and practiced his profession continuously until he retired in 1934.

He is survived by a son and daughter.

Edwin Lefevre, '91

Edwin Lefevre, financial writer and former Panamanian Ambassador to Spain and Italy, died February 22 after an illness of six months. He was 73 years of age.

Mr. Lefevre attended Michigan Military Academy and studied mining engineering at Lehigh University. He started his career as a reporter on The New York Sun and afterward was a financial writer and assistant financial editor on the old New York Commercial Advertiser. He also wrote many financial articles in Harper's, Everybody's, Munsey's, Cosmopolitan, McClure's and the American magazines, Iron Age and the Philadelphia Inquirer. In later years he wrote exclusively for the Saturday Evening Post.

In 1909 the Government of Panama appointed him Extraordinary Ambassador to Spain and Italy, where he established legations for it in 1910.

He is survived by his widow and two sons.

Samuel A. Rhodes, '92

The Alumni office has just been informed that Samuel A. Rhodes died November 25 after a long period of illness. No details were given.

William A. Lambert, '95

Reverend Dr. William A. Lambert died February 19.

Upon his graduation from Lehigh University in 1895 and the Lutheran Theological Seminary at Mount Airy in 1898, Rev. Lambert served at many pastorates. Rev. Lambert maintained lifelong interest in education. He received a master of arts degree from Lehigh in 1916 and from 1920 to 1925, was professor of English at his Alma Mater. He has published numerous articles on secondary education and theological subjects.

He is survived by his widow and two sons.

William A. Megraw, '97

We have just received a card from J. H. Pennington informing us of the death of William A. Megraw. No further details were given.

Arthur C. Flory, '06

Word has been received at the Alumni Office that Arthur C. Flory died March 1.

For the past 24 years Mr. Flory was manager of the steam turbine department of the Allis-Chalmers Mfg. Co., Milwaukee. He was also an outstanding engineer in development of the steam turbine.

Elwood M. Taussig, '06

Elwood M. Taussig died in Philadelphia, Pa., March 20.

He is survived by his wife and three children.

Kenneth G. Potter, '12

Kenneth G. Potter, prominent insurance broker, died March 4. He was 55 years of age.

Mr. Potter attended Lehigh University and was a member of the Phi Delta Theta fraternity.

He is survived by his wife.

Joseph L. Alex, '24

We have just been informed of the death of Dr. Joseph L. Alex who died in 1940. No particulars were given.

William W. Beveridge, '39

We have just received word of the death of William W. Beveridge. Death was caused from asphyxiation.

Mr. Beveridge attended Lehigh and while at school was a member of the Beta Theta Pi fraternity.

DIRECTORY OF LEHIGH ALUMNI CLUBS

Allentown, W. W. York, '24, (P); C. V. Converse, '28, (S), 143 N. 28th St.

Bethlehem, (Home Club) J. K. Conneen, '30, (P); W. E. Martin, '27, (S), 503 Dime Trust Bldg., Allentown, Pa.

Boston, D. C. Buell, Jr., '26, (P).

Central New York, Gordon Kent, '07, (S) The Kent Co., Rome, N. Y.

Central Penna., H. C. Towle, Jr., '28, (P); B. M. Root, '35, (S), 401 N. 29th St., Paxtang, Harrisburg, Pa.

Central Jersey, J. H. Pennington, '97, (P); C. F. McCoy, '37, (S), 107 King George Road, Pennington, N. J.

Chicago, W. O. Galrns, '26, (P); E. K. Collison, '07, (S), George A. Fuller Co., 111 W. Washington St.

China, T. C. Yen, '01, (P); A. T. L. Yap, '19, (S), 16 Burkill Rd., Shanghai, China.

Cincinnati, B. E. Keifer, '18, (P); C. C. Sherrill, '35, (S), Box 111, Glendale, Ohio.

Delaware, W. M. Metten, '25, (P); G. H. Cross, Jr., '30, (S), 2211 Boulevard, Wilmington, Del.

Detroit, R. A. Lodge, '33, (P); E. E. Krack, '36, (S), 10386 Crocuslawn Ave.

Maryland, W. F. Perkins, '13, (P); P. J. Flanagan, Jr., '33, (S), 2405 Loch Raven Rd., Baltimore, Md.

Monmouth County, Jersey, C. A. Wolbach, (Chm); Carlton M. Roberts, '25, (S), 1508 Grand Ave., Asbury Park, N. J.

New York, F. E. Portz, '17, (P); Wm. McKinley, '19, (S), 414 E. 52nd St.

Northeast Penna., F. S. Lubrecht, '12, (P); G. G. Jacobosky, '07, (S), 211 So. Main St., Wilkes-Barre, Pa.

Northern New Jersey, Larry Kingham, '25, (P); A. H. Loux, '35, (S), 917 Natl. Newark Bldg., 744 Broad St., Newark, N. J.

Northern Calif., R. H. Tucker, '79, (P), 1525 Waverly St., Palo Alto, Calif.

Northern N. Y., N. Y. Coxe, '34, (P); E. S. Gallagher, '36, (S), 1134 Glenwood Blvd., Schenectady, N. Y.

Northern Ohio, G. P. Nachman, '14, (P); H. B. Osborn, Jr., '32, (S), Ohio Crankshaft Co., 6600 Clement Ave., Cleveland, Ohio.

Philadelphia, T. C. O'Neill, '17, (P); Moriz Bernstein, '96, (S), 2130 Estaugh St.

Pittsburgh, J. H. Throm, '11, (P); H. E. Lore, '35, (S), 311 Chestnut St., Sewickley, Pa.

Southern Anthracite, H. R. Randall, '23, (P), Rhoads Contracting Co., Ashland, Pa.

Southern New England, John R. Waltman, '26, (P); L. H. Van Billiard, '23, (S), Newtown, Conn.

Southeast Penna., H. J. Kaufmann, '10, (P); George Potts, '23, (S), 536 Court St., Reading, Pa.

Southern Calif., D. H. Kirkpatrick, '17, (P); W. C. Winterhalter, '19, (S), 1595 North Lake Ave., Pasadena, Calif.

Washington, D. C., F. G. Macarow, '20, (P); D. M. Wight, '23, (S), Washington Loan & Trust Bldg.

Western New York, W. A. Yates, '19, (P); L. G. Meurer, '26, (S), Marine Trust Bldg., Buffalo, N. Y.

York, Pa., J. G. Bergdoll, '19, (P); C. H. Neiman, '35, (S), 330 W. Jackson St., York, Pa.

Youngstown, O., J. S. Stanier, '23, (P); J. A. Waterman, '30, (S), P. O. Box 135, Poland, Ohio.

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